

# Water Levels and Artesian Pressure in Observation Wells in the United States in 1949

## Part 2. Southeastern States

*Prepared under the direction of C. G. PAULSEN, Chief Hydraulic Engineer*

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GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1157

*Prepared in cooperation with the States  
of Alabama, Florida, Georgia, Ken-  
tucky, Maryland, North Carolina,  
South Carolina, Tennessee, Virginia,  
and West Virginia and other agencies*



**UNITED STATES DEPARTMENT OF THE INTERIOR**

**Oscar L. Chapman, *Secretary***

**GEOLOGICAL SURVEY**

**W. E. Wrather, *Director***

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## PREFACE

This report was prepared by the Geological Survey in cooperation with the States of Alabama, Florida, Georgia, Kentucky, Maryland, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia, and other agencies, by personnel of the Water Resources Division under the direction of:

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**WATER LEVELS AND ARTESIAN PRESSURE IN OBSERVATION WELLS  
IN THE UNITED STATES IN 1949**

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**Part 2. SOUTHEASTERN STATES**

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**INTRODUCTION**

By A. N. Sayre and others

The publication of records of water levels and artesian pressures annually in the United States was begun by the Geological Survey in 1935. Prior to 1940 the records were published in a single volume--1935, 777; 1936, 817; 1937, 840; 1938, 845; and 1939, 886. Beginning with 1940 the records have been published in six volumes, covering the northeastern, southeastern, north-central, south-central, northwestern, and southwestern sections of the country. Hawaii is included in the southwestern section. The following table gives the numbers of water-level reports from 1940 through 1949.

Year	North- eastern (1)	South- eastern (2)	North- central (3)	South- central (4)	North- western (5)	South- western (6)
1940	906	907	908	909	910	911
1941	936	937	938	939	940	941
1942	944	945	946	947	948	949
1943	986	987	988	989	990	991
1944	1016	1017	1018	1019	1020	1021
1945	1023	1024	1025	1026	1027	1028
1946	1071	1072	1073	1074	1075	1076
1947	1096	1097	1098	1099	1100	1101
1948	1126	1127	1128	1129	1130	1131
1949	1156	1157	1158	1159	1160	1161

Ground-water investigations are concerned with the availability of usable water supplies, land drainage, flood control, construction of waterways and dams, mine drainage, and other problems to which the principles of ground-water hydrology are pertinent. Water levels in wells indicate the stages of the aquifers; they show the extent to which water supplies

are depleted by drought or by heavy pumping, and the extent to which they are replenished in seasons of abundant rainfall or melting snow. The recorded changes of pressure in artesian wells also indicate depletion or replenishment of the artesian supplies.

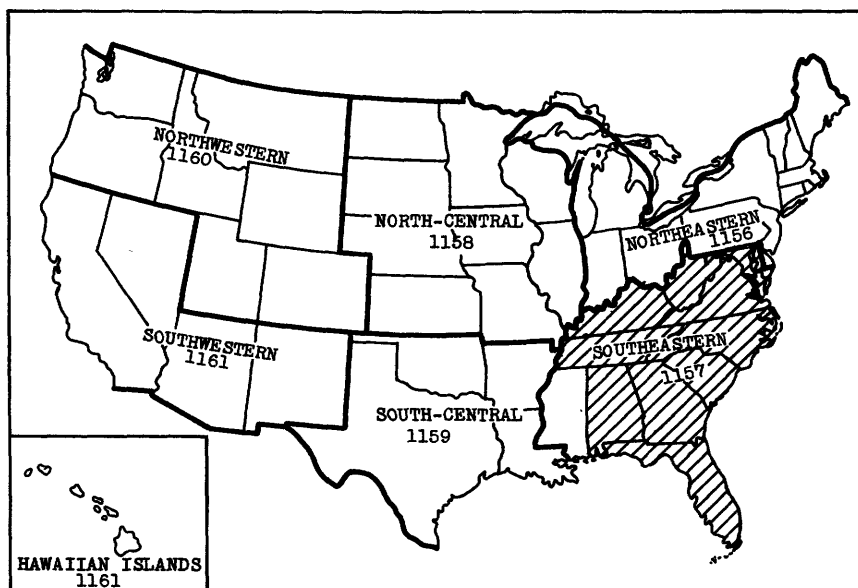


Figure 1.--Outline map of the United States showing States included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1949. The shaded area indicates the States included in this volume.

This volume gives records of water levels and artesian pressures in observation wells in the southeastern States (Alabama, Florida, Georgia, Kentucky, Maryland, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia). Of the 1,080 wells listed, 136 are equipped with recording gages. Descriptive matter for some wells is given in previous reports. For wells not previously reported complete records of water levels are given. For wells whose previous records have been published this volume gives only the current records.

Before 1943, the water levels and artesian pressures for some wells were given in feet above or below the measuring points and for other wells in feet above or below sea level or above or below various assumed

datum planes. In 1943, a precise datum plane was selected at each well which was approximately the land surface. The water levels and artesian heads for all wells listed in this volume are referred to land-surface datum. Water levels above this datum are preceded by a plus (+) sign, those below this datum have no sign but are understood to be minus (-).

Measurements of water levels and artesian pressures in wells were made under the direction of the district supervisors of the Ground Water Branch in the several States. Verda M. Dougherty edited the reports; Rodney Hart edited the illustrations; and Penn Livingston had general charge of the nation-wide observation-well program.



## ALABAMA

By P. L. LaMoreaux

### PROGRAM OF WORK

The cooperative investigations of the ground-water resources of the State were continued throughout 1949 in cooperation with the State Geological Survey. About 144 monthly measurements of water levels and 52 weekly measurements were made in addition to the continuous records from 6 recording gages. Weekly measurements were made in well J-28 at Scottsboro, formerly under observation by the Tennessee Valley Authority. At the end of the year 19 wells were being observed.

#### FLUCTUATIONS OF WATER LEVELS

Fluctuations of the water levels in most of the observation wells show a close correlation with rainfall. In some of the shallow wells the rise in water level occurs within a few days after the rainfall. With normal precipitation the cycle of water-level fluctuations begins with a rise in late November or December. This rise continues through the period of spring rainfall until late April or early May after which it begins to decline. During July, August, and early September intermittent heavy rains fall owing to the influence of the Gulf. The general decline of the water level is interrupted by these rains which contribute some recharge to the ground-water reservoir, the amount being influenced by evaporation and transpiration. Lowest water levels and spring flows are generally recorded during late October and November. The water-bearing formations receive their greatest recharge, and thus have higher water levels in late December and early spring. Summer rainfall is often torrential, and a greater proportion runs off the land surface.

During 1949, except for a dry 3-weeks period during May, rainfall in most areas was abundant until the second week of September. In January rainfall was light in the southern part and heavy in the northwestern part of the State. In March rainfall was above average in the western part and

below average in the southeastern part of the State, while during May and June rainfall averaged slightly more than normal. In July rainfall was light in the north, but very heavy in the coastal counties of the State. Precipitation was in general light in all sections of the State from September 6 through October. November 1949 was the fourth driest November since State-wide records began in 1884. This below-average rainfall extended into December with 1.27 inches less than normal.

Geologically the State may be divided into the Piedmont area, the Paleozoic area, and the Coastal Plain. In the Piedmont area crystalline schist and gneiss injected by younger igneous rocks are found. Only small yields, generally less than 10 gallons a minute and rarely exceeding 50 gallons a minute are obtained from wells in this area. In northern Alabama, the Paleozoic formations consisting of shale, sandstone, limestone, and dolomite, are important sources of ground water. Many municipal, industrial, and private water supplies are derived from wells and springs yielding water from fractures or solution channels in these rocks. The formations in the Coastal Plain consist of unconsolidated clay, sandy clay, sand, gravel, chalk, marl, and limestone. (See fig. 2.)

A report on the ground-water resources of the Huntsville area, by P. E. LaMoreaux, G. W. Swindel, Jr., and C. R. Lanphere, was published by the Alabama Geological Survey as Bulletin 62. In December 1948, Mr. LaMoreaux's report entitled "Fluoride in the Ground Water of the Tertiary Area of Alabama" was published as Bulletin 59 by the State Geological Survey. A report on the ground-water geology of the Tennessee Valley area in the State was issued as Circular 18 by the Geological Survey of Alabama in August 1949. Special Report 20 of the Geological Survey of Alabama (April 1949) is the first of a proposed series of five, covering the hydrology and water resources of Alabama. Each report will cover a different area and will include information on surface and ground water. P. E. LaMoreaux is the author of the chapter on ground water.

Autauga County.--The water level in well A-1 rose to a high of 2.35 feet on March 28. The water level declined during the summer and fall to reach the lowest level of the year, 7.25, on December 6. The last measurement of the year, on December 29, was 6.37 feet.

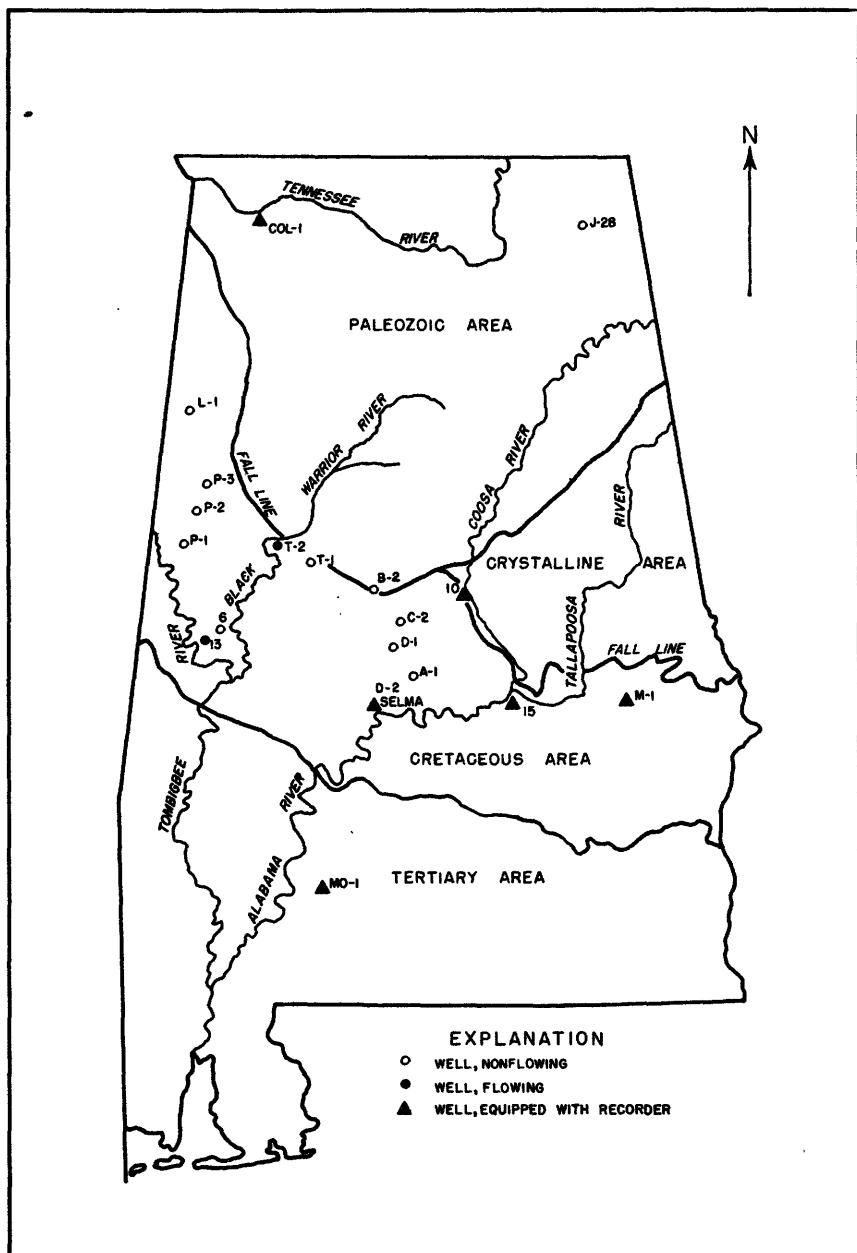


Figure 2.--Map of Alabama showing geologic provinces and location of observation wells, 1949.



Bibb County.--The water level in well B-2, at the Centerville Gin Company, rose gradually to a high of 25.01 feet on March 28. The water level declined slowly during the summer and fall to reach the lowest level of the year, 31.14, on December 6. The last measurement of the year, on December 29, was 30.26 feet.

Chilton County.--In 1949 the weather station at Clanton recorded 58.36 inches of precipitation, 4.26 inches above normal. Rainfall during January, February, and April through August was 10.23 inches above normal, while 5.72 inches below-normal rainfall was recorded for March and September through December. Because of the above-normal rainfall the water level in well 10 rose sharply during the early part of May until it reached the high for the year, 16.02 feet, on May 17. The high was 0.2 foot above the record high of 16.22 feet in 1948. The water level declined through the summer and fall until it reached its lowest reading of the year, 21.54 feet on November 8. The low for 1949 was 1.72 feet above the record low of 23.26 feet in 1944.

Colbert County.--During 1949 the Weather Bureau station at Sheffield recorded a total precipitation of 53.43 inches. The highest monthly precipitation was recorded in January with a total of 11.51 inches, which was reflected in well Col.-1 on February 4 by the highest water level of the year, +2.30 feet. The lowest monthly precipitation, 0.61 inch, was recorded in November. After the high water level in February the water table dropped slowly until July 1 when it reached 10.55 feet. It then rose sharply to 3.20 feet on July 22, then fell slowly until the lowest reading of the year, 26.17 feet, on December 16.

Dallas County.--After a slight lowering of the water level in well D-2 in January, the water level gradually rose during February and March, and on April 4 reached the high for the year, 14.93 feet. This was 5.91 feet lower than the record high of 9.02 feet in 1941. The lowest water level of the year, 24.33 feet, was recorded on August 8. The water level gradually rose to 17.93 feet on December 26.

Greene County.--The highest water level of the year in well 13, at Boligee, was +6.06 feet, recorded on April 1 and May 2. The high for 1949 was 1.26 feet below the record high of +7.32 feet in 1941. The water level fluctuated only slightly throughout the year, with the lowest water level of

+5.85 feet being recorded on July 29 and August 29. This was 3.34 feet higher than the record low of +2.51 feet in 1941.

The highest water level in well 6, at the Cotton Patch Restaurant, was 13.83 feet, recorded on April 1. The water level declined slowly throughout the remainder of the year. The well was dry on December 29 when the last measurement of the year was taken, the first time that the well has been dry since it was put under observation in September 1941.

Jackson County.--Shallow water-table conditions exist in well J-28, at Scottsboro, and there is close correlation between water level and precipitation. The Weather Bureau station at Scottsboro during 1949 recorded 71.56 inches of rainfall, 18.91 inches above normal. The lowest water level during 1949 was 10.64 feet, recorded on October 18. During late October and November the water level gradually rose to the highest level for the year, 3.28 feet; on December 14. The last measurement of the year, on December 20, was 3.34 feet. The 1949 high was 1.98 feet lower than the record high of 1.3 feet, in February 1937. The lowest level for 1949, 10.64 feet, was 5.46 feet above the recorded low of 16.10 feet, when the well was dry during 1944, 1947, and 1948.

Lamar County.--The annual precipitation for the period was 60.75 inches, 5.83 inches above normal. The water level in well L-1 rose gradually during January and February and when measured on March 4 stood at +9.72 feet, the highest level of the year. The water level gradually declined during the fall and winter months to its lowest level of +7.71 feet on December 29.

Macon County.--The water level in well M-1 rose gradually until the early part of October. The high reading for the year was recorded on September 20 when the water level stood at 61.85 feet. On October 4 pumping in a well about 400 yards from the observation well was resumed, at the rate of 100 gallons a minute, causing a sharp decline of the water level in well M-1 to the low reading of the year, 86.26 feet, on October 11. The pumping rate was decreased during the last of October and the water level in well M-1 rose to 62.50 feet on December 27.

Monroe County.--The water level in well Mo-1, at Monroeville, rose gradually during the months of January through May and the high reading for the year, 47.94 feet, was recorded on June 3. The water level fluctuated slightly during the summer months and declined during the fall and winter to the low of the year, 52.45 feet, on December 30.

Montgomery County.--The water level in well 15 (City of Montgomery well 15a) remained fairly constant during the period January through March, and on April 1 reached 107.19 feet, the highest reading for the year. This was 2.76 feet higher than the record high of 109.95 feet in 1940. The water level declined sharply during late May and on June 3 the low reading for the year, 129.39 feet, was recorded. The low for 1949 was 4.80 feet higher than the record low of 134.19 feet in 1948.

Pickens County.--The Weather Bureau station at Reform reported an annual rainfall of 52.83 inches during 1949. The highest water level of the year, 4.11 feet, was recorded on April 6. After declining to the low level of the year, 5.98 feet, on August 5, the water level rose to 4.63 feet on December 29, the last reading of the year.

Tuscaloosa County.--The high water level in well T-2, was +8.25 feet, February 7, March 4, and April 6. This was 0.5 foot lower than the high recorded in April 1948. The water level slowly declined through the summer and early fall and reached the low of the year, +7.25 feet, on October 28. The low was 0.85 foot higher than the previous low of +6.40 feet, recorded in November 1948. A total of 54.20 inches of rainfall, 0.22 inch above normal, was recorded at the Tuscaloosa weather station during 1949.

#### WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

##### Autauga County

A-1. J. F. Apperson. 0.3 mile south of post office at Jones. Domestic well, diameter 36 inches, depth 14 feet. Records available: 1948-49.

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
Feb. 3	2.86	May 17	3.84	July 27	3.60	Oct. 27	6.65
Mar. 8	3.35	June 9	3.63	Aug. 31	5.37	Dec. 6	7.25
28	2.35	28	3.60	Sept. 27	6.00	29	6.37

##### Bibb County

B-2. Centerville Cotton Gin. In Centerville, 3 blocks south of courthouse. Diameter 8 inches, depth 297 feet. Records available: 1948-49.

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
Feb. 3	25.44	May 17	26.85	July 27	29.17	Oct. 27	31.03
Mar. 8	25.36	June 9	28.27	Aug. 31	30.37	Dec. 6	31.14
28	25.01	28	28.30	Sept. 27	30.46	29	30.26

##### Chilton County

C-2. P. L. Lewis. At Stanton, on State Highway 22. Domestic well, diameter 36 inches, depth 34 feet. Records available: 1948-49.

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
Feb. 3	16.43	May 17	15.62	July 27	21.16	Oct. 27	24.70
Mar. 8	14.80	June 9	17.90	Aug. 31	22.17	Dec. 6	26.49
28	15.94	28	19.49	Sept. 27	24.20	29	25.04

## C-10. City of Clanton. In waterworks lot. Records available:

1941-49.

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
Jan. 4	18.04	Apr. 5	18.63	July 5	17.27	Oct. 4	19.52
11	17.59	12	16.41	12	18.02	11	19.86
18	17.40	19	16.32	19	17.35	18	19.88
25	17.47	26	17.30	26	17.06	25	20.19
Feb. 1	17.70	May 3	17.35	Aug. 2	17.23	Nov. 1	20.63
8	17.60	10	16.71	10	18.11	8	21.54
15	17.12	17	16.02	17	17.70	15	20.49
22	17.81	24	17.08	23	18.25	22	20.19
Mar. 1	16.23	31	17.79	30	17.70	29	21.10
8	16.74	June 7	17.49	Sept. 6	18.44	Dec. 6	20.75
15	16.66	14	18.61	13	18.53	13	20.70
24	17.36	21	17.88	20	18.93	20	19.82
29	17.18	28	18.91	27	19.39	27	19.95

Colbert County

Col.-1. Colbert County Malarial Control Project. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 3, T. 4 S., R. 10 W. Drainage well, diameter 8 inches, depth 61 feet. Altitude of land-surface datum about 505 feet. Records available: 1943.

Jan. 7	+1.35	Apr. 8	0.14	July 15	6.05	Oct. 14	18.40
14	+82	15	.73	22	3.20	21	18.50
21	+1.65	22	1.40	29	4.05	28	20.00
28	+2.26	29	1.93	Aug. 5	5.30	Nov. 4	20.95
Feb. 4	+2.30	May 6	2.54	12	6.80	11	21.90
11	+2.05	13	3.37	19	8.85	18	22.90
18	+1.72	20	4.50	26	9.90	25	23.95
25	+1.73	27	5.05	Sept. 2	11.46	Dec. 2	24.97
Mar. 4	+1.29	June 3	6.65	9	11.45	9	25.87
11	+70	10	8.08	16	12.50	16	26.17
18	+03	17	9.04	23	14.50	23	24.85
25	.34	24	9.10	30	16.55	30	23.80
Apr. 1	+20	July 1	10.55	Oct. 7	18.60		

Dallas County

D-1. J. W. Pickering. At Plantersville. At rear of store 0.25 mile south of Southern Railway station, on State Highway 22. Domestic well, diameter 36 inches, depth 24 feet. Records available: 1948-49.

Feb. 3	15.21	May 17	15.16	July 27	17.46	Oct. 27	19.34
Mar. 8	13.87	June 9	16.57	Aug. 31	18.20	Dec. 6	20.10
28	15.42	28	16.73	Sept. 27	19.04	29	20.17

D-2. City of Selma. At waterworks. Diameter 6 inches, depth 420 feet. Records available: 1941, 1945-49.

Jan. 3	18.28	Apr. 4	14.93	July 4	20.93	Oct. 3	23.03
10	17.80	11	15.33	11	21.43	10	22.93
17	17.98	18	15.13	18	20.13	17	22.98
24	18.46	25	15.53	25	20.43	24	22.68
31	17.94	May 2	15.49	Aug. 1	22.33	30	22.03
Feb. 7	17.63	9	18.33	8	24.33	Nov. 7	21.93
14	15.33	16	16.63	15	24.03	14	20.43
21	15.44	23	17.83	22	23.23	21	20.23
28	16.48	30	18.83	29	22.63	28	19.88
Mar. 7	15.73	June 6	18.13	Sept. 5	24.03	Dec. 5	20.34
14	15.43	13	18.43	12	23.33	12	18.83
21	15.13	20	19.03	19	23.23	19	18.73
28	16.13	27	20.73	26	24.10	26	17.93

Greene County

6. R. Neillon and E. Ward. NW $\frac{1}{4}$  sec. 14, T. 22 N., R. 2 E., in front of Cotton Patch Restaurant, on U. S. Highway 11, on hillside, in upper Eutaw sands. Records available: 1941-49.

G--Continued.

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
Jan. 29	15.85	May 2	14.96	July 29	16.99	Oct. 28	18.65
Mar. 4	14.76	June 1	15.72	Aug. 29	17.59	Nov. 29	19.23
Apr. 1	13.83	29	16.37	Sept. 28	17.98	Dec. 29	(a)

a Dry.

13. In Boligee. At old mill house, 200 feet northwest of Alabama Great Southern Railroad Co. station. Unused cotton mill well, diameter 4 inches, depth 560 feet. Records available: 1941-42, 1946-49.

Jan. 29	+5.90	May 2	+6.06	July 29	+5.85	Oct. 28	+5.87
Mar. 4	+6.00	June 1	+5.96	Aug. 29	+5.85	Nov. 29	+5.94
Apr. 1	+6.06	29	+6.04	Sept. 28	+5.97	Dec. 29	+5.86

Jackson County

J-28. Tennessee Valley Authority well TVA 28. NW $\frac{1}{4}$  sec. 29, T. 3 S., R. 5 E., on State Highway 35, about 0.4 mile south of intersection with U. S. Highway 72 and 50 feet southeast of intersection with old Scottsboro highway, 30 feet south of State Highway 35. Records available: 1936-41, 1943-49.

Jan. 4	3.96	Apr. 5	4.92	July 5	3.70	Oct. 4	9.60
11	3.52	12	4.93	12	4.52	11	9.90
18	4.68	19	4.82	19	3.50	18	10.64
24	4.58	25	6.65	26	3.60	25	9.27
Feb. 1	4.35	May 3	6.20	Aug. 1	5.07	Nov. 1	3.64
7	5.14	10	6.14	8	4.90	9	3.65
15	6.34	18	5.00	16	5.73	16	4.14
22	7.14	24	3.94	24	6.44	22	4.42
Mar. 1	4.08	31	4.50	Sept. 1	7.68	Dec. 1	4.34
7	4.72	June 7	4.64	6	7.73	6	5.12
14	4.54	14	5.30	13	7.87	14	3.28
21	5.44	21	5.12	21	9.12	20	3.34
29	4.34	28	3.73	28	8.80		

Lamar County

L-1. J. W. Gartman. 0.25 mile east of courthouse at Vernon. Domestic well, diameter 2 inches, depth 135 feet. Records available: 1948-49.

Feb. 7	+8.82	May 16	+9.22	Aug. 5	+9.46	Oct. 28	+8.96
Mar. 4	+9.72	June 6	+9.22	27	+8.96	Nov. 30	+8.71
Apr. 6	+9.22	28	+9.46	Sept. 28	+9.22	Dec. 29	+7.71

Macon County

M-1. Tuskegee Institute. In brick house at side of school laundry, 200 feet from school power plant. Diameter 18 inches, depth 355 feet. Records available: 1948-49.

Jan. 4	73.28	Apr. 5	69.25	July 12	63.83	Oct. 11	86.26
11	72.84	12	68.80	19	63.45	18	72.00
18	72.11	26	68.32	26	63.40	25	72.90
25	71.53	May 3	68.80	Aug. 2	63.10	Nov. 1	68.25
Feb. 1	71.43	10	67.87	9	63.32	8	65.80
8	70.99	17	68.48	16	63.25	15	63.95
15	70.73	24	66.55	23	63.15	22	63.60
22	70.40	31	65.83	30	62.65	29	62.75
Mar. 1	70.32	June 7	65.18	Sept. 6	62.65	Dec. 6	63.45
8	70.12	14	64.72	13	62.50	13	63.00
15	70.12	21	64.45	20	61.85	20	62.95
22	69.85	28	64.35	27	62.25	27	62.50
29	69.78	July 5	63.90	Oct. 4	61.90		

Monroe County

Mo-1. City of Monroeville. 1 block west of courthouse, 50 feet north-east of city water tank. Diameter 10 inches, depth 120 feet. Records available: 1948-49.

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
Jan. 7	51.27	Apr. 1	49.61	June 24	48.89	Sept. 16	49.62
14	50.90	8	49.48	July 1	49.15	23	49.78
21	50.87	15	49.28	9	49.38	30	49.86
28	50.97	22	49.18	15	48.72	Oct. 8	49.79
Feb. 4	51.03	29	49.10	22	49.46	14	49.89
11	51.05	May 6	49.13	29	49.44	21	50.31
18	50.72	13	48.57	Aug. 5	48.89	28	50.51
25	50.52	20	48.19	12	48.92	Nov. 4	50.71
Mar. 4	50.24	27	48.17	19	48.66	11	50.87
11	50.12	June 3	47.94	26	49.04	18	51.01
18	50.11	10	48.04	Sept. 2	48.75	Dec. 30	52.45
25	49.86	17	48.78	9	49.46		

Montgomery County

15. City of Montgomery well 15a. Corner of Court and Chambers Sts. Records available: 1940-41, 1946-49.

Jan. 7	111.79	Apr. 8	110.79	July 15	121.09	Oct. 14	118.69
14	109.79	15	111.49	22	119.59	21	119.39
21	110.89	22	111.79	29	124.09	28	118.19
28	111.69	29	110.19	Aug. 5	121.59	Nov. 4	116.09
Feb. 4	111.39	May 6	108.69	12	123.99	11	117.59
11	108.59	13	113.90	19	124.89	18	113.69
18	108.09	20	121.55	26	124.99	25	115.19
25	108.79	27	119.79	Sept. 2	122.19	Dec. 2	115.89
Mar. 4	108.49	June 3	129.39	9	122.59	9	112.99
11	107.49	17	118.49	16	122.89	16	113.09
18	107.49	24	118.49	23	121.39	23	113.29
25	108.49	July 1	122.19	30	120.89	30	112.49
Apr. 1	107.19	8	122.99	Oct. 7	119.29		

Pickens County

P-1. H. M. Stapp. 1.5 miles northwest of Aliceville, on old Columbus road, at rear of house. Domestic well, diameter 4 inches, depth 560 feet. Records available: 1948-49.

Feb. 7	2.45	May 16	3.73	Aug. 5	3.99	Oct. 28	4.24
Mar. 4	2.37	June 6	3.06	27	4.02	Nov. 30	3.96
Apr. 6	2.39	28	3.36	Sept. 28	4.20	Dec. 29	3.49

P-2. M. D. Carr. 0.25 mile north of Carrollton, on State Highway 17, on back porch of house. Diameter 36 inches, depth 32.5 feet. Records available: 1948-49.

Feb. 7	19.91	May 16	18.87	Aug. 5	20.96	Oct. 28	22.29
Mar. 4	18.68	June 6	19.62	27	21.16	Nov. 30	22.75
Apr. 6	17.98	28	20.16	Sept. 28	21.70	Dec. 29	22.71

P-3. Reform Cotton Gin. 0.25 mile east of railroad station, on U. S. Highway 82, at rear of gin house. Domestic well, diameter 4 inches, depth 90 feet. Records available: 1948-49.

Feb. 7	4.16	May 16	4.93	Aug. 5	5.98	Oct. 28	5.54
Mar. 4	4.31	June 6	5.20	27	5.25	Nov. 30	5.28
Apr. 6	4.11	28	5.13	Sept. 28	5.71	Dec. 29	4.63

Tuscaloosa County

T-1. Gulf, Mobile & Ohio Railroad. At Duncanville. Near railroad station, at rear of house, on U. S. Highway 82. Domestic well, diameter 6 inches, depth 15 feet. Records available: 1948-49.

## T-1--Continued.

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
Feb. 3	5.69	May 17	6.68	July 27	7.52	Oct. 27	8.06
Mar. 8	5.89	June 9	7.08	Aug. 31	7.91	Dec. 6	7.88
28	5.52	28	7.26	Sept. 27	7.72	29	7.11

T-2. C. Q. Bush. 8.5 miles southwest of Tuscaloosa, on U. S. Highway 11, at side of house. Domestic well, diameter 4 inches, depth 275 feet. Records available: 1947-49.

Feb. 7	+8.25	May 16	+7.75	Aug. 8	+7.35	Oct. 28	+7.25
Mar. 4	+8.25	June 6	+7.75	29	+7.35	Nov. 29	+7.50
Apr. 6	+8.25	28	+7.75	Sept. 28	+7.35	Dec. 30	+7.25

# FLORIDA

By W. E. Clark and M. C. Schroeder

## PROGRAM OF WORK

The observation-well program in Florida was continued in 1949 in cooperation with the Florida Geological Survey and with several counties and cities as part of a cooperative investigation of the ground-water resources of Florida, which was begun in some parts of the State as early as 1930. An intensive investigation in southern Florida, begun in 1939, is being made in cooperation with Dade County, and the cities of Miami and Miami Beach. Other counties and cities cooperating in ground-water investigations in 1949 include Pinellas County, and the cities of Fort Lauderdale and Pensacola.

During the year 25 additional automatic water-stage recorders were installed, and at the close of 1949, the program included 397 wells, 82 of which were equipped with automatic water-stage recorders. More than 5,400 periodic measurements were made in the State during the year.

Distribution, by counties, of observation wells in Florida, 1949

County	Number of wells at end of year	Number of tape and pressure gauge measurements	Number of wells with water-stage recorders
Bay	3	21	1
Brevard	5	14	0
Broward	10	244	4
Clay	7	48	0
Columbia	1	8	1
Dade	246	3,000	22
Duval	17	127	1
Escambia	6	316	4
Flagler	1	2	0
Gadsden	1	7	0
Gulf	1	8	1
Hendry	2	6	0
Highlands	6	72	6
Hillsborough	1	7	1
Holmes	2	13	1
Jackson	2	6	0
Lee	2	24	2
Leon	4	796	1
Manatee	1	7	1
Marion	1	53	0
Nassau	13	92	1
Ocala	11	81	0
Okeechobee	3	31	3



Distribution, by counties, of observation wells in Florida, 1949--Continued

County	Number of wells at end of year	Number of tape and pressure gauge measurements	Number of wells with water-stage recorders
Orange	3	39	3
Osceola	5	49	5
Palm Beach	3	76	2
Pinellas	7	67	7
Polk	7	63	7
St. Johns	6	39	0
Santa Rosa	3	24	0
Sarasota	2	26	2
Taylor	2	15	2
Volusia	5	48	3
Wakulla	2	20	1
Walton	5	35	0
Washington	1	7	0
Totals	397	5,491	82

## FLUCTUATIONS OF WATER LEVELS

Water levels and artesian pressure in Florida, west of the Suwannee River, generally declined in 1949. At all precipitation stations of the U. S. Weather Bureau rainfall was less in 1949 than it was in 1948, although most of the stations reported rainfall in 1949 as being above normal.

The water level in Escambia County well 45 declined 0.67 foot during the year. This well is near the well field of the Florida Pulp and Paper Company at Cantonment, and its water level has declined more than 20 feet since July 1941 when the paper mill first began pumping its wells. The water level in Escambia County well 46 declined 2.43 feet during the year from the high water level it had reached in 1948. Water levels in Escambia County wells 60 and 62 were generally about 2 feet higher in 1949 than in 1948, but they were approximately the same at the end of the year as at the beginning. The rise of water levels in these wells is attributed to a probable decrease in pumpage in the Bayou Chico area where they are located. The water levels declined 0.63 and 0.71 foot, respectively, during the year in Escambia County wells 60A and 62A, which penetrate only into the shallow aquifers. The precipitation at Pensacola in 1949 was 71.00 inches, or 13.15 inches above normal, as compared to a precipitation in 1948 of 84.48 inches. •

Water levels and artesian pressure were generally higher in 1949 than in 1948 in observation wells in Santa Rosa, Okaloosa, Holmes, Gulf, and Jackson Counties. Water levels and artesian pressures in Bay, Wakulla,

and Walton Counties were generally lower in 1949 than in 1948 except in Walton County wells 13 and 14, near Point Washington.

Water levels in all observation wells in Leon and Taylor Counties declined in 1949 from the high they reached in 1948. During the year the water level in Leon County well 5 declined 9.30 feet, and that in Taylor County well 36 declined 4.18 feet. The Weather Bureau reported a total of 53.34 inches of rainfall at Tallahassee in 1949. This rainfall was 1.83 inches below normal and 30.11 inches less than that in 1948.

The water level in Columbia County well 9, at Lake City, declined 2.4 feet in 1949, making a total decline of 6.79 feet since measurements began on June 5, 1948. This decline represents a recession from exceptionally high water level that doubtless occurred during the floods of April 1948. The Weather Bureau reported a rainfall at Lake City of 66.01 inches in 1948 and 55.21 inches in 1949. This represents a decrease of 10.80 inches of rainfall from 1948 to 1949, although the 1949 rainfall is reported as being 5.33 inches above normal.

The artesian pressure in Clay and Duval Counties generally declined in 1949, reaching a low for the year during May or June. The pressure in neither Clay nor Duval Counties is affected by local rainfall.

Artesian pressure generally declined in observation wells in Nassau County except in Nassau County wells 22, 27, and 34 near Fernandina. The artesian pressure has been lowered extensively by the withdrawal of about 30 million gallons of water a day by Rayonier, Inc., at Fernandina.

The artesian pressure in observation wells in St. Johns County was generally about 1 foot higher in 1949 than in 1948, except in St. Johns County wells 8 and 9. The artesian pressure in St. Johns County well 8 did not change significantly, but that in St. Johns County well 9 was generally about 0.4 foot lower in 1949 than in 1948.

The water levels and artesian pressure in observation wells in Volusia County were generally about 0.4 foot lower in 1949 than in 1948.

Weekly measurements of the artesian pressure in Marion County well 5 were continued by the U. S. Geological Survey district office in Ocala in 1949. The pressure on this well declined from 12.19 feet above land-surface datum at the beginning of the year to 9.63 feet on June 25, after which it rose until it reached a high of 14.01 feet on October 15. This

is the highest pressure that has been recorded since measurements were begun in 1933. The pressure had declined to 12.03 feet above land-surface datum by the end of the year. The pressure on this well responds only slightly, if at all, to local rainfall.

The water level in Orange County well 47 declined 2.04 feet during the year, because the precipitation in the region was less in 1949 than in 1948. This water level responds quickly to local recharge. The Weather Bureau reported the rainfall in 1949 at Orlando to be 48.24 inches, which is 8.31 inches less than in 1948 and 8.07 inches below normal.

Water levels in Polk County declined slightly in 1949 owing to a decrease in rainfall and, in part, to an increase in pumping in this region. The U. S. Weather Bureau reported the rainfall in 1949 at Bartow to be 53.08 inches, which is 2.23 inches below normal and 3.50 inches less than in 1948.

The observation of water levels in Pinellas County continued in 1949 in cooperation with the county as a part of an investigation of the encroachment of sea water into the limestone aquifer. This investigation has indicated that most of the ground water in the Pinellas peninsula is derived from local rainfall. Water levels in all observation wells in Pinellas County declined slightly in 1949 partly because the precipitation in 1949 was below normal.

The water levels in Manatee County well 92 and Sarasota County wells 5 and 9 are not appreciably affected by local rainfall. However, owing to a below-normal rainfall in this region in 1949, the use of ground water for irrigation increased, and, as a result, the water level in these wells declined slightly.

Water levels in southern Florida during 1949 were generally lower as compared with those during 1948 owing principally to a smaller amount of rainfall. As the result of an unequal distribution of rainfall throughout the year, the lowest water levels usually occur in May or June, and the highest in September or October.

Water levels in Dade County were approximately half a foot lower than in 1948 and were slightly below normal. The total rainfall was 52.99 inches at Miami, and 65.32 inches at Homestead.

In Broward and Palm Beach Counties, water levels in 1949 ranged from 1 to 2 feet lower than in the previous year and were approximately half a foot below the average over the period of record. The total rainfall at West Palm Beach was 59.23 inches and that at Fort Lauderdale was 58.91 inches.

Water levels and artesian pressures in Lee County were approximately the same in 1949 as in 1948.

Comparative water levels for selected wells, in feet above mean sea level

Well No.	County	1942	1943	1944	1945	1946	1947	1948	1949	Average through 1949
S196	Dade	4.10	3.00	2.65	2.10	3.30	3.85	3.65	3.35	3.25
F210	Dade	1.50	1.35	1.20	1.05	1.40	2.30	1.95	1.55	1.55
G72	Dade	5.35	4.45	4.60	3.75	4.80	6.15	5.70	5.40	5.00
S329	Broward	4.55	3.70	3.20	2.50	3.80	5.45	4.10	3.80	4.10
PB88	Palm Beach	....	....	....	7.25	7.65	9.85	9.65	7.10	8.10
L246	Lee	....	....	....	16.65	16.90	17.10	15.50	15.15	16.25
92	Manatee	....	42.4	42.0	41.4	42.2	42.4	42.2	40.6	41.9
5	Marion	51.2	48.3	47.7	48.6	50.3	50.6	52.0	51.1	50.0
5	Leon	25.8	23.5	24.6	21.5	26.5	27.1	33.6	27.1	26.2
62-A	Escambia	2.7	1.6	2.6	2.0	2.8	2.81	2.9	2.8	2.5

#### ERRATA

Corrections to the Florida section of the "Water levels and artesian pressure in wells in Southeastern States, 1946" are as follows:

Well 7, Bay County. Aug. 21, 44.05; Sept. 25, 43.57; Oct. 24, 43.22; Nov. 19, 44.35.

Well 102, Duval County. June 21, 3.60; Aug. 15, 2.49; Sept. 2, 2.24; Oct. 2, 1.98; Nov. 14, 1.81; Dec. 18, 2.39.

Corrections to the Florida section of "Water levels and artesian pressure in wells in Southeastern States, 1947" are as follows:

Well 131, Duval County. Mar. 12, +36.5; Apr. 8, +36.0; June 3, +40.1; July 17, +40.2; Aug. 13, +38.0; Sept. 9, +40.0; Nov. 20, +40.2.

Well 160, Duval County. Jan. 22, +38.2; Mar. 10, +38.5; Apr. 7, +38.3; June 2, +40.5; July 15, +39.8; Aug. 12, +36.0; Sept. 12, +36.5; Oct. 10, +38.9; Nov. 20, +39.7.

Well 164, Duval County. Jan. 20, +36.9; Mar. 11, +37.5.

Well 5, Marion County. In order to obtain corrected measurements, subtract 0.15 foot from measurements as published.

Well 22, Nassau County. Feb. 1, 1940, +2.64; Feb. 29, +3.41; June 28, 1944, +9.2; June 29, +12.6; June 30, +15.6; July 1, +15.2; July 2, +16.0; July 3, +16.9; July 4, +17.3; July 5, +17.4; July 6, +17.7; July 7, +17.3; July 8, +16.0; July 9, +11.3; July 10, +8.8; July 11, +7.5; July 12, +6.8; Aug. 2, 1945, +4.4; Aug. 8, +4.64; Dec. 5, 1946, +7.34.

## WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Bay County

7. City of Panama City. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, T. 3 S., R. 15 W., under water tank at Clay and 11th Sts., in St. Andrew. Records available: 1946-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Mar. 12	44.66	44.96	July 23	47.57	48.00
19	44.56	44.92	30	47.99	48.22
26	44.43	44.96	Aug. 6	48.08	48.22
Apr. 2	44.31	44.55	13	47.50	48.15
9	43.74	44.95	20	46.77	47.88
23	44.37	44.52	Sept. 17	48.13	48.34
30	44.52	44.63	Oct. 29	47.86	47.94
May 7	44.63	44.84	Nov. 5	47.69	48.01
14	44.50	44.86	12	47.92	48.02
21	44.96	46.05	19	47.84	48.17
23	46.05	47.45	26	47.89	48.25
June 4	47.25	47.45	Dec. 3	47.95	48.20
11	47.45	48.05	10	47.95	48.20
18	47.85	48.05	17	46.67	47.14
25	47.87	47.99	24	46.72	47.39
July 2	48.00	48.39	31	47.08	47.36
16	47.57	48.02			

8. Hunt Oil Co. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 28, T. 2 S., R. 14 W., 455 feet south of old railroad depot near Fanning Bayou, Southport. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Mar. 7	+2.18	May 31	+1.56	Oct. 25	+2.64
Apr. 18	+2.36	Sept. 13	+1.79	Dec. 12	+2.58

10. L. R. Pierson. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 10, T. 3 S., R. 14 W., at Leisure Lodge, 1.25 miles east of Lynn Haven. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level
Mar. 7	6.46	July 11	6.23	Oct. 25	7.71
Apr. 18	6.53	Sept. 13	6.70	Dec. 12	7.54
May 31	7.78				

11. Youngstown Naval Stores. In Youngstown, in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 28, T. 1 S., R. 12 W., 75 feet west of U. S. Highway 231. Records available: 1946-48. Measurements discontinued.

Brevard County

19. Mr. R. M. Wall. 9 miles west of Melbourne, in NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 5, T. 28 S., R. 36 E., about 40 feet north of State Highway 500, about 30 feet west of St. Johns River bridge. Records available: 1946-49. Feb. 24, +28.6; Oct. 15, +30.0; Dec. 9, +29.0.

20. Mr. Marion Platt. Formerly owned by Mr. Webber. 9.5 miles west of Malabar, in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 4, T. 29 S., R. 36 E., about 10 feet south of State Highway 514. Records available: 1946-49. Feb. 24, +27.2; Oct. 15, +26.7; Dec. 9, +26.6.

79. C. W. Carlisle. About 1.6 miles northeast of Scottsmoor, about 12 feet east of shell road, in edge of orange grove. Records available: 1946-49. Feb. 24, +3.52; Aug. 19, +5.32; Oct. 15, +6.20.

148. W. P. Warren. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 31, T. 24 S., R. 36 E., about 60 feet south of State Highway 520, in edge of orange grove. Records available: 1946-49. Oct. 15, +12.8; Dec. 9, +11.8.

159. H. R. Jacobsen. 3 miles north of Orsino, in NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, T. 22 S., R. 37 E., on north side of small pit, in orange grove. Records available: 1946-47, 1949. Feb. 24, +15.8; Oct. 15, +16.7; Dec. 9, +15.0.

### Broward County

F291. City of Hollywood. In Hollywood, in NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 22, T. 51 S., R. 42 E. Records available: 1948-49.

#### High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	6.94	7.17	July 8	7.35	7.63
14	7.17	7.41	15	7.43	7.68
21	7.41	7.60	22	7.45	7.60
28	7.60	7.77	29	7.53	7.74
Feb. 4	7.77	7.91	Aug. 5	7.56	7.74
11	7.91	8.07	12	7.35	7.56
18	8.07	8.28	19	7.35	7.67
25	8.28	8.36	26	7.26	7.73
Mar. 4	8.36	8.39	Sept. 2	6.40	7.26
11	8.34	8.41	9	6.45	6.94
18	8.40	8.45	16	6.45	6.97
25	8.16	8.46	23	6.44	6.86
Apr. 1	8.34	8.59	30	4.90	6.93
8	8.22	8.65	Oct. 7	4.58	5.21
15	8.23	8.40	14	4.92	5.38
22	8.17	8.39	21	5.33	5.77
29	8.17	8.37	28	5.77	5.98
May 6	7.93	8.37	Nov. 4	5.98	6.27
13	7.38	7.94	11	6.27	6.46
20	6.79	7.38	18	6.06	6.40
27	7.07	7.55	25	6.23	6.65
June 3	7.55	7.77	Dec. 2	6.65	7.04
10	7.54	7.69	9	7.04	7.34
17	7.12	7.70	16	7.34	7.61
24	6.83	7.12	23	7.61	7.72
July 1	6.87	7.35	30	6.17	7.72

G221. U. S. Geological Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 50 S., R. 42 E. Records available: 1946-49.

#### High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	11.99	12.79	Apr. 29	14.15	14.29
14	12.66	13.12	May 6	14.04	14.29
21	12.75	13.27	13	13.54	14.24
28	12.99	13.64	20	12.93	13.54
Feb. 4	13.28	13.85	27	12.81	13.50
11	13.47	14.16	June 3	13.21	13.71
18	13.75	14.39	10	.....	.....
25	13.98	14.51	17	.....	.....
Mar. 4	14.07	14.55	24	11.05	12.27
11	13.87	14.55	July 1	11.03	12.33
18	14.06	14.71	15	11.94	12.95
25	14.15	14.39	22	11.87	12.70
Apr. 1	14.58	14.53	29	12.07	13.03
8	14.37	14.59	Aug. 5	.....	.....
15	14.37	14.56	12	10.53	11.13
22	14.03	14.49			

## G221--Continued.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Aug. 19	10.97	12.29	Oct. 28	10.65	11.49
26	.....	.....	Nov. 4	10.68	11.69
Sept. 2	11.16	11.81	11	11.30	11.83
9	11.09	12.01	18	11.54	11.82
16	11.54	12.05	25	11.82	12.67
23	11.91	12.38	Dec. 2	12.32	13.03
30	10.70	12.81	9	12.45	12.91
Oct. 7	9.58	10.73	16	12.74	13.15
14	9.67	10.38	23	12.92	13.82
21	10.19	11.27	30	10.63	13.82

G512. U. S. Geological Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 24, T. 50 S., R. 41 E. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Feb. 18	10.68	June 15	9.43	Oct. 18	8.37
Apr. 13	10.71	Aug. 17	9.70	Dec. 15	10.28

G513. U. S. Geol. Survey. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 14, T. 50 S., R. 41 E. Records available: 1947-49.

Feb. 18	5.23	June 15	4.06	Oct. 18	3.28
Apr. 13	5.09	Aug. 17	4.66	Dec. 15	5.19

G514. U. S. Geol. Survey. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 9, T. 50 S., R. 42 E. Records available: 1947-49.

Feb. 18	4.54	June 15	3.54	Oct. 18	2.67
Apr. 14	4.48	Aug. 17	3.77	Dec. 15	4.19

G515. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 50 S., R. 41 E. Records available: 1947-49.

Feb. 18	7.34	June 15	4.64	Oct. 18	3.04
Apr. 13	6.54	Aug. 17	3.73	Dec. 15	5.73

G516. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, T. 50 S., R. 42 E. Records available: 1947-49.

Feb. 18	5.62	June 15	4.47	Oct. 18	2.30
Apr. 14	6.10	Aug. 17	3.26	Dec. 15	4.30

G561. U. S. Geol. Survey. In Fort Lauderdale, in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 50 S., R. 42 E. Records available: 1948-49.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	6.47	6.77	May 6	7.23	7.62
14	6.77	7.02	13	7.01	7.34
21	7.00	7.12	20	6.65	7.01
28	7.11	7.30	27	6.80	7.18
Feb. 4	7.30	7.40	June 3	6.91	7.35
11	7.37	7.53	10	6.85	7.05
18	7.53	7.62	17	5.90	7.05
25	7.61	7.75	24	5.83	6.06
Mar. 4	7.65	7.70	July 1	6.04	6.63
11	7.40	7.56	8	6.60	6.86
18	7.37	7.42	15	6.75	6.90
25	7.08	7.49	22	6.79	6.88
Apr. 1	7.38	7.77	29	6.88	7.04
8	7.58	7.81	Aug. 5	6.18	7.03
15	7.58	7.72	12	6.18	6.34
22	7.42	7.58	19	6.31	6.78
29	7.43	7.62	26	5.80	6.83

G561--Continued.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Sept. 2	5.05	5.53	Nov. 4	5.47	5.80
9	5.53	6.02	11	5.80	5.97
16	5.95	6.10	18	5.95	6.08
23	6.08	6.26	25	6.07	6.32
30	4.40	6.15	Dec. 2	6.32	6.63
Oct. 7	3.96	4.95	9	6.63	6.89
14	4.50	5.19	16	6.87	7.13
21	5.19	5.49	23	6.95	7.13
28	5.35	5.55	30	4.34	7.08

S329. Fort Lauderdale. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, T. 50 S., R. 41 E. Records available: 1940-49.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 14	5.73	6.40	July 15	4.32	5.17
21	6.14	6.76	22	4.49	4.67
28	6.36	6.90	29	4.66	5.25
Feb. 4	6.63	7.21	Aug. 5	2.88	5.16
11	6.88	7.43	12	2.92	3.52
18	7.02	7.57	19	3.52	4.42
25	7.18	7.64	Sept. 2	3.29	3.88
Mar. 4	7.22	7.66	9	3.56	4.62
25	6.83	7.32	16	4.35	4.73
Apr. 1	6.95	7.51	23	4.64	4.93
8	6.95	7.51	30	2.61	4.93
15	6.95	7.41	Oct. 7	1.89	3.28
22	6.54	6.95	14	2.66	3.06
29	6.56	7.20	21	2.89	3.59
May 6	6.54	7.21	28	3.18	3.33
13	5.65	7.15	Nov. 4	3.18	3.90
20	5.05	5.78	11	3.89	4.15
27	5.48	6.48	18	4.08	4.41
June 3	5.77	6.63	25	4.41	5.00
10	5.70	6.36	Dec. 2	4.78	5.32
17	4.63	6.37	9	5.32	5.72
24	....	4.63	16	5.62	6.00
July 1	3.85	4.55	23	5.72	6.29
8	5.12	4.55	30	....	6.29

S330. Florida Power & Light Co. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 30, T. 50 S., R. 42 E. Records available: 1940-41, 1943-49.

Date	Water level	Date	Water level	Date	Water level
Apr. 14	2.58	June 14	1.57	Oct. 18	0.70
May 11	2.09	Aug. 16	2.40	Dec. 15	2.78

## Clay County

1. Girl Scouts of America. At Camp Chowenaw, about 1,000 feet south of SE. corner 20, T. 5 S., R. 26 E., about 2,200 feet west of south end of bridge across Black Creek, on U. S. Highway 17. Records available: 1934, 1940, 1942, 1944-49.

Jan. 5	+42.9	Apr. 5	+42.5	Oct. 12	+42.4
Feb. 23	+42.7	Aug. 16	+41.8		

2. Mrs. M. A. Chaulker. At Middleburg, in NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 13, T. 5 S., R. 24 E., about 500 feet north of South Fork of Black Creek. Records available: 1934, 1940-42, 1944-49.



2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+45.3	Apr. 5	+45.3	June 29	+43.0	Oct. 12	+44.6
Feb. 23	+45.2	May 19	+42.5	Aug. 16	+45.9	Dec. 7	+44.0

4. T. J. Jennings. Near north line SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 32, T. 4 S., R. 25 E., southeast side of new highway, 3.2 miles northeast of Middleburg. Records available: 1940-42, 1944-49. Jan. 5, +40.3; Feb. 23, +40.8; Apr. 5, +40.6.

5. John Huntley. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 32, T. 4 S., R. 25 E., about 500 feet northwest of State Highway 68, 4.2 miles northeast of Middleburg. Records available: 1940-41, 1944-49.

Jan. 5	+33.8	Apr. 5	+35.5	June 29	+30.5	Oct. 12	+33.7
Feb. 23	+34.5	May 19	+31.1	Aug. 16	+34.1	Dec. 7	+33.1

7. U. S. Navy. At auxiliary air base, about 2.5 miles southeast of Green Cove Springs. Records available: 1940-42, 1946-47, 1949.

Date	Water level	Date	Water level	Date	Water level
Sept. 4, 1946	+25.0	Dec. 19, 1946	+22.3	Oct. 12, 1949	+19.3
Oct. 2,	+19.1	Jan. 22, 1947	+19.3	Dec. 7	+19.7
Nov. 14	+20.9	June 29, 1949	+15.5		

8. St. Elmo Hotel. In Green Cove Springs. Records available: 1934-35, 1940-42, 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+18.6	Apr. 5	+18.6	June 29	+17.0	Oct. 12	+18.5
Feb. 23	+18.8	May 19	+17.0	Aug. 16	+19.0	Dec. 7	+18.2

22. U. S. Navy. At auxiliary air base, about 2.5 miles southeast of Green Cove Springs, on south side of pumphouse. Records available: 1946-49.

Jan. 5	+18.2	Apr. 5	+16.8	June 29	+15.5	Oct. 12	+18.7
Feb. 23	+16.5	May 19	+17.0	Aug. 16	+19.0	Dec. 7	+18.5

### Columbia County

9. City of Lake City. 1 mile south of Lake City, west of water plant on Alligator Lake, in sec. 5, T. 4 S., R. 17 E. Records available: 1948-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	83.95	84.04	84.27	84.32	84.01	84.07	83.99	84.06	84.38	84.44	84.76	84.82
2	83.97	84.02	84.24	84.31	84.04	84.10	83.94	84.07	84.43	84.45	84.82	84.90
3	84.02	84.05	84.14	84.26	84.05	84.11	84.00	84.09	84.45	84.55	84.88	84.95
4	84.05	84.07	84.08	84.14	84.03	84.10	84.09	84.19	84.55	84.59	84.92	84.97
5	84.00	84.07	84.07	84.12	83.96	84.04	83.94	84.06	84.51	84.58	84.87	84.96
6	83.98	84.06	84.08	84.14	83.84	83.95	84.06	84.25	84.43	84.52	84.87	84.95
7	84.03	84.08	83.98	84.07	83.82	84.03	84.21	84.27	84.32	84.43	84.92	85.03
8	84.05	84.12	84.06	84.14	83.95	84.02	84.15	84.23	84.34	84.45	85.01	85.16
9	84.14	84.23	84.06	84.14	83.83	83.95	84.15	84.31	84.39	84.49	85.14	85.26
10	84.15	84.24	84.00	84.25	83.72	83.90	84.27	84.37	84.37	84.46	85.18	85.32
11	84.10	84.23	84.22	84.37	83.98	84.00	84.16	84.33	84.36	84.49	85.10	85.20
12	84.00	84.15	84.25	84.37	83.92	84.03	83.99	84.22	84.48	84.62	85.07	85.15
13	84.02	84.11	84.23	84.33	83.92	84.02	83.98	84.11	84.57	84.68	85.08	85.13
14	84.02	84.13	84.15	84.30	83.84	84.02	84.12	84.21	84.65	84.70	85.09	85.12
15	84.10	84.15	84.11	84.20	83.89	84.12	84.16	84.24	84.64	84.70	85.05	85.09
16	84.11	84.19	84.11	84.15	84.10	84.20	84.17	84.30	84.66	84.70	85.05	85.10
17	84.11	84.17	84.11	84.25	84.02	84.14	84.30	84.36	84.68	84.75	85.10	85.23

9--Continued.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
18	84.15	84.18	84.15	84.24	83.96	84.03	84.30	84.43	84.73	84.76	85.23	85.28
19	84.19	84.21	84.08	84.15	84.03	84.22	84.30	84.40	84.69	84.75	85.28	85.33
20	84.21	84.28	84.10	84.15	84.22	84.24	84.38	84.46	84.60	84.68	85.31	85.36
21	84.26	84.28	84.15	84.20	84.11	84.22	84.40	84.45	84.60	84.67	85.28	85.36
22	84.26	84.30	84.10	84.18	83.98	84.11	84.33	84.43	84.66	84.74	85.22	85.32
23	84.26	84.32	84.03	84.13	83.95	84.04	84.29	84.40	84.69	84.80	85.24	85.32
24	84.25	84.33	84.02	84.12	84.02	84.17	84.28	84.39	84.66	84.79	85.27	85.40
25	84.27	84.34	83.95	84.07	84.10	84.22	84.39	84.57	84.65	84.74	85.38	85.50
26	84.20	84.35	83.92	84.02	84.09	84.19	84.48	84.62	84.68	84.78	85.47	85.56
27	84.12	84.27	83.79	83.98	84.02	84.15	84.38	84.53	84.76	84.84	85.46	85.52
28	84.06	84.16	83.89	84.00	84.05	84.17	84.35	84.44	84.81	84.87	85.44	85.59
29	84.16	84.33			84.14	84.24	84.35	84.43	84.83	84.92	85.44	85.49
30	84.19	84.34			84.09	84.22	84.35	84.44	84.86	84.92	85.44	85.44
31	84.11	84.25			84.02	84.14			84.75	84.89		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	85.44	85.44	85.86	85.91	85.98	86.06	85.56	85.65	85.05	85.28	85.66	85.77
2	85.53	85.55	85.90	85.98	86.04	86.10	85.53	85.62	85.18	85.32	85.75	85.87
3	85.55	85.39	85.88	85.97	86.02	86.13	85.48	85.62	85.20	85.34	85.83	85.92
4	85.53	85.60	85.83	85.93	86.00	86.06	85.41	85.51	85.25	85.35	85.82	85.91
5	85.53	85.60	85.80	85.90	85.95	86.04	85.33	85.42	85.28	85.42	.....	.....
6	85.55	85.64	85.79	85.90	85.93	86.03	85.33	85.40	85.40	85.47	85.80	85.91
7	85.57	85.67	85.81	85.93	85.90	85.99	85.34	85.43	85.38	85.47	85.70	85.83
8	85.63	85.74	85.87	86.03	85.83	85.94	85.37	85.45	85.35	85.44	85.75	85.77
9	85.67	85.76	86.00	86.07	85.83	85.89	85.35	85.45	85.33	85.41	85.77	85.93
10	85.65	85.73	86.03	86.13	85.88	85.95	.....	.....	85.32	85.37	85.88	85.94
11	85.65	85.73	86.00	86.12	85.93	85.96	85.26	85.37	85.32	85.37	85.92	85.97
12	85.67	85.73	85.93	86.02	85.86	85.97	85.21	85.29	85.32	85.38	85.95	86.00
13	85.70	85.73	85.88	85.93	85.80	85.86	85.25	85.27	85.29	85.35	85.90	85.98
14	85.72	85.74	85.92	86.06	85.80	85.86	85.22	85.29	85.13	85.31	85.86	85.94
15	85.74	85.76	86.01	86.06	85.80	85.86	85.17	85.25	85.20	85.33	85.85	85.98
16	85.75	85.80	86.01	86.07	85.75	85.85	85.19	85.28	85.32	85.47	85.95	86.12
17	85.77	85.80	85.99	86.06	85.77	85.88	85.26	85.37	85.40	85.54	86.04	86.13
18	85.78	85.85	85.88	86.00	85.77	85.98	85.32	85.42	85.46	85.61	86.00	86.10
19	85.78	85.85	85.88	85.95	85.71	85.83	85.27	85.40	85.52	85.61	85.99	86.08
20	85.79	85.85	85.92	86.01	85.66	85.75	85.30	85.30	85.45	85.59	86.02	86.08
21	85.80	85.87	85.96	86.07	85.67	85.77	85.32	85.41	85.41	85.62	85.96	86.08
22	85.86	85.95	86.04	86.20	85.59	85.73	85.33	85.41	85.61	85.69	85.92	86.01
23	85.92	86.00	86.04	86.14	85.54	85.64	85.33	85.41	85.60	85.69	85.96	86.22
24	85.93	86.03	86.08	86.16	85.57	85.63	85.31	85.41	85.43	85.63	86.22	86.28
25	85.91	86.00	86.15	86.23	85.57	85.64	85.27	85.37	85.32	85.50	86.19	86.28
26	85.93	85.99	86.10	86.21	85.54	85.61	85.30	85.37	85.50	85.60	86.13	86.19
27	85.96	86.02	85.52	86.10	85.46	85.54	85.33	85.39	85.52	85.58	86.12	86.19
28	85.95	86.00	85.86	86.02	85.36	85.46	85.30	85.38	85.56	85.64	86.17	86.27
29	85.90	85.95	86.02	86.06	85.44	85.54	85.30	85.38	85.52	85.60	86.24	86.31
30	85.85	85.90	86.00	86.07	85.44	85.60	85.20	85.34	85.46	85.66	86.28	86.40
31	85.86	85.90	85.96	86.04			85.05	85.20			86.37	86.45

Dade County

Fl. City of Miami Springs. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.99	Apr. 28	5.45	July 29	5.84	Oct. 30	4.10
Feb. 28	6.56	May 31	5.76	Aug. 31	5.15	Nov. 30	5.23
Mar. 30	5.38	June 30	5.54	Sept. 30	4.55	Dec. 29	5.05

F2. City of Miami Springs. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	6.41	Apr. 28	5.88	July 29	6.24	Oct. 31	4.60
Feb. 28	6.99	May 31	6.19	Aug. 31	5.57	Nov. 30	5.69
Mar. 30	5.79	June 30	5.95	Sept. 30	4.10	Dec. 29	5.50

F3. City of Miami Springs. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	4.79	Apr. 28	4.27	July 29	4.61	Oct. 31	2.96
Feb. 28	5.39	May 31	4.61	Aug. 31	3.95	Nov. 30	4.08
Mar. 30	4.14	June 30	4.33	Sept. 30	2.38	Dec. 29	3.84

F4. City of Miami Springs. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	6.71	Apr. 28	6.23	July 29	6.51	Oct. 31	4.92
Feb. 28	7.28	May 31	6.59	Aug. 31	5.88	Nov. 30	6.01
Mar. 30	6.08	June 30	6.26	Sept. 30	4.23	Dec. 29	5.76

F5. City of Miami Springs. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	5.32	Apr. 28	4.83	July 29	5.15	Oct. 31	3.68
Feb. 28	5.77	May 31	5.16	Aug. 31	4.62	Nov. 30	4.70
Mar. 30	4.75	June 30	4.93	Sept. 30	2.93	Dec. 29	4.47

F6. City of Miami Springs. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	6.26	Apr. 28	5.82	July 29	6.09	Oct. 31	4.66
Feb. 28	6.65	May 31	6.12	Aug. 31	5.57	Nov. 30	5.66
Mar. 30	5.73	June 30	5.89	Sept. 30	3.82	Dec. 29	5.42

F7. City of Miami Springs. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	5.60	Apr. 28	5.16	July 29	5.43	Oct. 31	4.09
Feb. 28	5.90	May 31	5.43	Aug. 31	4.99	Nov. 30	5.04
Mar. 30	5.10	June 30	5.27	Sept. 30	3.25	Dec. 29	4.80

F8. City of Miami Springs. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	5.58	Apr. 28	5.16	July 29	5.38	Oct. 31	4.11
Feb. 28	5.82	May 31	5.41	Aug. 31	5.00	Nov. 30	5.06
Mar. 30	5.12	June 30	5.28	Sept. 30	3.28	Dec. 29	4.82

F9. City of Miami Springs. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	4.40	Apr. 28	3.97	July 29	4.16	Oct. 31	2.88
Feb. 28	4.72	May 31	4.26	Aug. 31	3.76	Nov. 30	3.85
Mar. 30	3.91	June 30	4.06	Sept. 30	2.04	Dec. 29	3.60

F10. City of Miami Springs. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	5.81	Apr. 28	5.40	July 29	5.59	Oct. 31	4.14
Feb. 28	6.28	June 1	5.63	Aug. 31	5.05	Nov. 30	5.19
Mar. 30	5.28	June 30	5.40	Sept. 30	3.33	Dec. 29	4.92

F11. City of Miami Springs. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	6.51	Apr. 28	6.04	July 29	6.34	Oct. 31	4.86
Feb. 28	6.95	May 31	6.37	Aug. 31	5.79	Nov. 30	5.89
Mar. 30	5.96	June 30	6.12	Sept. 30	4.07	Dec. 29	5.64

Fl2. City of Miami Springs. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	9.37	Apr. 28	8.77	July 29	8.85	Oct. 31	6.72
Feb. 28	10.49	May 31	9.29	Aug. 31	8.03	Nov. 30	8.12
Mar. 30	8.43	June 30	8.55	Sept. 30	6.60	Dec. 29	7.78

Fl3. City of Miami Springs. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1939-49.

Jan. 28	8.71	Apr. 28	8.23	July 29	8.37	Oct. 31	5.85
Feb. 28	10.06	May 31	8.88	Aug. 31	7.29	Nov. 30	7.38
Mar. 30	7.94	June 30	7.89	Sept. 30	6.03	Dec. 29	7.32

Fl4. City of Miami Springs. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1939-49.

Jan. 28	7.62	Apr. 28	7.10	July 29	7.25	Oct. 31	4.83
Feb. 28	9.07	May 31	7.95	Aug. 31	6.17	Nov. 30	6.20
Mar. 30	6.91	June 30	6.84	Sept. 30	4.97	Dec. 29	6.27

Fl5. City of Miami Springs. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1939-49.

Jan. 28	6.85	Apr. 28	6.55	July 29	6.43	Oct. 31	4.28
Feb. 28	8.17	May 31	7.15	Aug. 31	5.77	Nov. 30	5.75
Mar. 30	6.34	June 30	6.19	Sept. 30	4.28	Dec. 29	5.84

Fl8. City of Opa-locka. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 22, T. 52 S., R. 41 E. Records available: 1939-45, 1947, 1949. Feb. 8, 7.44; Aug. 10, 6.90.

F22. City of Opa-locka. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 21, T. 52 S., R. 41 E. Records available: 1939-45, 1947, 1949. Feb. 8, 6.38; Aug. 8, 6.02.

F25. City of Opa-locka. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 21, T. 52 S., R. 41 E. Records available: 1939-45, 1947, 1949. Feb. 8, 5.60; Aug. 8, 5.07.

F53. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 53 S., R. 41 E. Records available: 1939-45, 1947, 1949. Feb. 8, 12.78; July 26, 9.57.

F62. City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 14, T. 53 S., R. 41 E. Records available: 1939-45, 1947, 1949. Feb. 8, 10.10; July 28, 9.54.

F64. City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 23, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 13	10.18	Feb. 15	10.77	June 2	9.28	Oct. 5	6.61
Feb. 8	10.43	Apr. 7	10.00	July 28	9.92	Dec. 7	9.39

F69. City of Miami. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 26, T. 53 S., R. 41 E. Records available: 1939-47, 1949. Feb. 8, 8.30; July 25, 8.73.

F109. City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 10, T. 53 S., R. 41 E. Records available: 1939-45, 1947, 1949. Feb. 8, 9.00.

F112. City of Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 22, T. 53 S., R. 41 E. Records available: 1939-45, 1949. Feb. 18, 7.93. Destroyed, measurements discontinued.

F117. City of Miami. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 34, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 13	5.86	Apr. 7	6.08	Aug. 11	5.50	Dec. 7	5.82
Feb. 15	6.05	June 2	5.79	Oct. 6	4.15		

Fl24. City of Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 3, T. 54 S., R. 41 E. Records available: 1939-47, 1949. Feb. 15, 9.71; July 14, 8.70.

F137. City of Miami. Sec. 11, T. 54 S., R. 41 E. Records available: 1939-49.

## F137 --Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	9.57	Apr. 7	9.48	Aug. 11	8.73	Dec. 8	9.30
Feb. 15	9.72	June 2	9.02	Oct. 10	7.95		

F143. City of Miami. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	10.24	Apr. 14	10.25	June 28	9.56	Oct. 10	8.70
26	10.57	May 3	10.01	Aug. 4	9.92	Nov. 9	9.43
Mar. 3	10.33	June 7	9.46	Sept. 12	9.35	Dec. 12	10.25

F146. City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 10, T. 54 S., R. 41 S. Records available: 1946-49.

Jan. 4	7.62	Apr. 13	7.88	July 6	6.94	Oct. 6	5.43
26	8.04	May 3	7.43	Aug. 4	7.25	Nov. 9	6.80
Mar. 3	8.03	June 7	6.90	Sept. 12	6.81	Dec. 12	7.71

F147. City of Miami. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	8.87	Apr. 14	8.73	June 28	7.55	Oct. 10	6.75
26	8.92	May 3	8.32	Aug. 4	8.18	Nov. 9	7.71
Mar. 3	8.87	June 7	7.78	Sept. 12	7.68	Dec. 12	8.61

F148. City of Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	9.42	Apr. 14	9.53	June 28	8.50	Oct. 10	7.72
26	9.76	May 4	9.10	Aug. 4	10.03	Nov. 9	8.56
Mar. 3	9.63	June 7	8.62	Sept. 12	8.50	Dec. 12	9.48

F154. City of Miami. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	10.59	Apr. 14	10.80	July 6	9.78	Oct. 10	8.61
26	10.94	May 3	10.35	Aug. 4	10.14	Nov. 9	9.71
Mar. 3	10.96	June 7	9.76	Sept. 12	9.70	Dec. 12	10.66

F155. City of Miami. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1939-49.

Jan. 5	5.32	Apr. 14	5.48	July 6	4.16	Oct. 10	3.47
26	5.67	May 4	5.04	Aug. 4	4.92	Nov. 9	4.43
Feb. 15	6.68	June 7	4.47	Sept. 12	4.43	Dec. 12	5.38
Mar. 3	5.62						

F156. City of Miami. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	10.82	Apr. 14	11.19	June 28	9.92	Oct. 10	9.07
26	11.19	May 4	10.77	Aug. 4	10.44	Nov. 9	9.90
Mar. 3	11.10	June 7	10.16	Sept. 12	9.94	Dec. 12	10.80

F158. City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	11.88	Apr. 14	11.90	June 28	11.21	Oct. 10	10.42
26	12.23	May 4	11.70	Aug. 4	11.58	Nov. 9	11.05
Mar. 3	11.92	June 7	11.21	Sept. 12	11.03	Dec. 8	11.95

F159. City of Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 22, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	15.96	Apr. 12	15.92	June 28	15.30	Oct. 10	14.53
26	16.31	May 4	15.72	Aug. 5	15.50	Nov. 9	16.13
Mar. 3	15.96	June 8	15.10	Sept. 12	15.28	Dec. 8	15.92

F160. City of Miami. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 22, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	13.24	Apr. 12	13.21	June 28	12.80	Oct. 10	11.97
27	13.52	May 20	13.00	Aug. 4	12.93	Nov. 8	12.42
Mar. 4	13.15	June 8	12.42	Sept. 13	12.82	Dec. 8	13.25

F163. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 10, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 4	11.35	Apr. 13	11.65	July 6	10.51	Oct. 6	8.91
26	11.73	May 3	11.11	Aug. 4	10.91	Nov. 9	10.45
Mar. 3	11.83	June 7	10.56	Sept. 12	10.51	Dec. 12	11.47

F164. City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 10, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 4	11.19	Apr. 13	11.45	July 6	10.37	Oct. 6	8.81
26	11.58	May 3	10.95	Aug. 4	10.78	Nov. 9	10.29
Mar. 3	11.63	June 7	10.39	Sept. 12	10.35	Dec. 12	11.30

F165. City of Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	6.00	Apr. 14	6.24	July 6	5.20	Oct. 10	4.03
26	6.37	May 3	5.77	Aug. 4	5.58	Nov. 9	5.10
Mar. 3	6.39	June 7	5.18	Sept. 12	5.16	Dec. 12	6.10

F166. City of Miami. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	8.20	Apr. 14	8.41	June 28	6.96	Oct. 10	6.28
26	7.56	May 4	7.94	Aug. 4	7.80	Nov. 9	8.33
Mar. 3	8.57	June 7	7.37	Sept. 12	7.35	Dec. 12	8.27

F168. City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	11.46	Apr. 12	11.58	June 28	10.58	Oct. 10	9.90
26	11.76	May 5	11.11	Aug. 4	11.14	Nov. 8	10.58
Mar. 4	11.62	June 8	10.65	Sept. 12	10.64	Dec. 8	11.52

F173. City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	7.56	Apr. 12	7.59	June 28	6.49	Oct. 10	5.33
26	7.88	May 5	7.08	Aug. 5	7.21	Nov. 8	7.67
Mar. 4	7.80	June 8	7.72	Sept. 13	6.75	Dec. 8	7.64

F174. City of Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 54 S., R. 41 E. Records available: 1939-49.

Jan. 4	10.91	Apr. 13	11.21	July 6	10.05	Oct. 6	8.37
26	11.30	May 3	10.67	Aug. 4	10.40	Nov. 9	9.99
Feb. 15	11.47	June 7	10.14	Sept. 12	10.09	Dec. 12	11.07
Mar. 3	11.44						

F176. City of Miami. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	8.42	Apr. 12	8.64	June 28	7.08	Oct. 10	6.48
26	8.78	May 5	7.75	Aug. 5	8.01	Nov. 8	7.50
Mar. 4	8.77	June 8	7.61	Sept. 13	7.56	Dec. 8	8.49

F177. City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	4.37	Apr. 12	4.53	June 28	3.30	Oct. 10	2.66
26	4.71	May 5	3.93	Aug. 4	4.02	Nov. 8	3.49
Mar. 4	4.61	June 8	3.58	Sept. 13	3.57	Dec. 8	4.44

## 30 WATER LEVELS AND ARTESIAN PRESSURE, 1949, SOUTHEASTERN STATES

F178. City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 9, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	8.96	Apr. 13	9.30	July 6	6.13	Oct. 6	6.48
26	9.35	May 3	8.74	Aug. 4	8.62	Nov. 9	8.05
Feb. 15	9.52	June 7	8.19	Sept. 12	8.16	Dec. 12	9.11
Mar. 3	9.50						

F179. City of Miami. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E. Records available: 1939-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	7.05	7.29	July 8	6.17	6.43
14	7.29	7.47	15	6.26	6.60
21	7.40	7.47	22	6.60	6.80
28	7.44	7.61	29	...	6.93
Feb. 4	7.50	7.61	Aug. 5	6.74	6.93
11	7.50	7.65	19	6.62	6.80
18	7.64	7.68	26	6.80	6.92
25	7.68	7.74	Sept. 2	6.43	6.81
Mar. 4	7.55	7.70	9	6.33	6.43
11	7.49	7.56	16	6.40	6.50
18	7.43	7.49	23	6.50	6.68
25	6.86	7.53	30	4.91	6.59
Apr. 1	7.00	7.24	Oct. 7	4.91	5.10
8	7.24	7.41	14	4.85	5.40
15	6.56	7.44	21	4.85	5.26
22	...	6.56	28	5.26	5.65
29	6.46	6.78	Nov. 4	5.65	6.11
May 6	6.67	6.98	11	6.11	6.41
13	6.67	6.73	18	6.41	6.58
20	6.59	6.67	25	6.58	6.85
27	6.63	6.93	Dec. 2	6.85	7.12
June 3	6.35	7.06	9	7.12	7.30
10	6.35	6.53	16	7.30	7.32
17	5.37	6.55	23	7.24	7.32
24	5.41	5.66	30	6.74	7.25
July 1	5.45	6.17			

F180. City of Miami. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 4, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	11.90	Apr. 13	12.35	July 6	11.59	Oct. 6	10.91
26	12.36	May 3	12.09	Aug. 4	11.90	Nov. 9	11.20
Feb. 15	12.50	June 7	11.38	Sept. 12	11.43	Dec. 12	12.19
Mar. 3	12.51						

F181. City of Miami. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	4.02	Apr. 12	4.19	June 28	2.88	Oct. 10	2.26
26	4.20	May 5	3.54	Aug. 4	3.66	Nov. 8	3.14
Mar. 4	4.26	June 8	3.21	Sept. 13	3.21	Dec. 8	4.09

F184. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 4, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	13.57	Apr. 13	14.04	July 6	13.38	Oct. 6	11.76
26	14.05	May 3	13.89	Aug. 4	13.69	Nov. 9	12.94
Mar. 3	14.18	June 7	13.11	Sept. 12	13.17	Dec. 12	13.84

F186. City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 1, T. 54 S., R. 40 E. Records available: 1939-45, 1947, 1949. Feb. 15, 12.45; July 13, 10.67.

F188. City of Miami. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 21, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	17.09	Apr. 12	17.03	June 28	16.41	Oct. 10	15.70
26	16.46	May 5	16.86	Aug. 5	16.76	Nov. 9	16.33
Feb. 15	17.21	June 8	16.23	Sept. 13	16.40	Dec. 8	17.10
Mar. 3	17.12						

F191. City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	12.57	Apr. 12	12.70	June 28	11.67	Oct. 10	11.00
26	13.00	May 5	12.27	Aug. 4	12.28	Nov. 8	11.71
Feb. 15	12.83	June 8	11.76	Sept. 13	11.80	Dec. 8	12.65
Mar. 4	12.77						

F192. City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	9.35	Apr. 14	9.58	June 28	8.81	Oct. 10	7.83
26	9.61	May 4	9.36	Aug. 4	9.01	Nov. 9	8.32
Mar. 3	9.37	June 7	9.51	Sept. 12	8.39	Dec. 8	9.26

F198. City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.48	Apr. 14	10.51	June 28	9.76	Oct. 10	8.94
26	10.76	May 4	10.27	Aug. 4	10.13	Nov. 9	9.57
Mar. 3	10.48	June 8	9.65	Sept. 12	9.56	Dec. 8	10.43

F199. City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	17.50	Apr. 14	17.19	June 28	16.78	Oct. 10	16.02
26	17.77	May 4	17.22	Aug. 4	17.14	Nov. 9	16.62
Feb. 15	17.62	June 7	16.74	Sept. 12	16.57	Dec. 12	17.49
Mar. 3	17.42						

F202. City of Miami. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 21, T. 54 S., R. 41 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	14.12	Apr. 12	14.06	June 28	13.55	Oct. 10	12.80
26	14.55	May 3	14.03	Aug. 5	13.87	Nov. 9	13.41
Feb. 15	14.29	20	13.75	Sept. 13	13.50	Dec. 8	14.18
Mar. 4	14.16	June 8	13.44				

F210. City of Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T. 53 S., R. 41 E. Records available: 1940-49.

High and low water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	7.48	7.67	May 13	7.16	7.22
14	7.67	7.82	20	7.12	7.26
21	7.82	7.87	27	7.21	7.47
28	7.85	7.99	June 3	7.47	7.57
Feb. 4	7.95	7.99	10	7.27	7.47
11	7.95	8.09	17	7.06	7.45
18	8.09	8.17	24	6.87	7.07
25	8.17	8.24	July 1	6.88	7.22
Mar. 4	8.06	8.12	8	7.22	7.30
11	7.99	8.06	15	7.28	....
18	7.94	7.99	29	....	7.58
25	7.60	8.04	Aug. 5	7.29	7.58
Apr. 1	7.67	7.85	12	6.59	7.36
8	7.67	7.81	19	6.74	7.16
15	7.52	7.72	26	6.90	7.22
22	7.38	7.52	Sept. 2	6.42	6.90
29	7.38	7.59	23	6.75	6.97
May 6	7.21	7.71	30	4.37	....



F210--Continued.

High and low water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Oct. 7	4.37	4.88	Nov. 18	6.63	6.83
14	4.88	5.40	25	6.83	....
21	5.07	5.57	Dec. 9	....	7.66
28	5.57	6.01	16	7.66	7.76
Nov. 4	6.01	6.43	23	7.74	7.79
11	6.43	6.78	30	7.22	7.79

F212. City of Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 32, T. 52 S., R. 41 E. Records available: 1939-44, 1947, 1949. Feb. 8, 7.52; Feb. 18, 7.65; Aug. 11, 7.97; Nov. 16, 6.90.

F213. City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	15.08	Apr. 12	15.17	June 28	14.64	Oct. 10	13.73
26	15.44	May 4	15.03	Aug. 5	14.84	Nov. 9	14.28
Feb. 15	15.23	June 8	14.44	Sept. 13	14.47	Dec. 8	15.06
Mar. 3	15.12						

F214. City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 12	10.15	Apr. 5	10.29	Aug. 11	8.92	Dec. 7	9.88
Feb. 15	10.51	June 2	10.28	Oct. 6	6.61		

F218. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, T. 53 S., R. 42 E. Records available: 1939-49.

Jan. 12	9.82	Apr. 5	9.96	Aug. 11	8.65	Dec. 7	9.59
Feb. 8	10.08	June 2	9.97	Oct. 6	6.48		

F225. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 53 S., R. 42 E. Records available: 1939-49. Jan. 12, 8.02; Feb. 8, 8.17; June 28, 7.41.

F226. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, T. 53 S., R. 42 E. Records available: 1939-47, 1949. Feb. 8, 15.79; June 28, 14.90.

F228. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 31, T. 52 S., R. 42 E. Records available: 1939-49. Jan. 11, 12.07; Feb. 8, 12.21; June 28, 11.64.

F233. City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 33, T. 53 S., R. 41 E. Records available: 1939-49. Feb. 15, 9.92; Aug. 11, 9.48.

F234. City of Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 27, T. 53 S., R. 41 E. Records available: 1939-49. Jan. 13, 7.15; Aug. 11, 6.70.

F235. City of Hialeah. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	5.96	Apr. 28	5.55	Aug. 10	5.61	Oct. 31	4.53
Feb. 15	6.21	May 31	5.75	31	5.42	Nov. 30	5.43
28	6.27	June 30	5.71	Sept. 30	3.93	Dec. 29	5.38
Mar. 30	5.51	July 29	5.91				

F236. City of Hialeah. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	6.75	Apr. 28	6.24	July 29	6.62	Oct. 31	5.16
Feb. 28	7.10	May 31	6.48	Aug. 31	6.02	Nov. 30	6.19
Mar. 30	6.19	June 30	6.35	Sept. 30	4.49	Dec. 29	6.03

F237. City of Hialeah. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	6.18	Apr. 28	5.67	July 29	6.05	Oct. 31	4.53
Feb. 15	6.48	May 31	5.92	Aug. 31	5.57	Nov. 30	5.58
28	6.60	June 30	5.71	Sept. 30	3.87	Dec. 29	5.43
Mar. 30	5.61						

F238. City of Hialeah. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 17, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	7.18	Apr. 28	6.72	July 29	7.04	Oct. 31	5.40
Feb. 28	7.71	May 31	6.96	Aug. 31	6.17	Nov. 30	6.51
Mar. 30	6.70	June 30	6.57	Sept. 30	4.86	Dec. 29	6.32

F239. City of Hialeah. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 17, T. 53 S., R. 41 E. Records available: 1943-49.

Jan. 28	8.38	Apr. 28	8.11	July 29	8.43	Oct. 31	6.79
Feb. 28	9.11	May 31	8.36	Aug. 31	7.59	Nov. 30	7.99
Mar. 30	8.11	June 30	7.94	Sept. 30	6.29	Dec. 29	7.70

F240. City of Hialeah. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 8, T. 53 S., R. 41 E. Records available: 1939-47, 1949. Feb. 8, 6.83; Aug. 10, 6.12.

F243. City of Hialeah. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 31, T. 52 S., R. 41 E. Records available: 1939-47, 1949. Feb. 8, 5.55; Aug. 10, 5.11.

F245. City of Hialeah. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 32, T. 52 S., R. 41 E. Records available: 1939-45, 1947, 1949. Feb. 8, 6.78; Aug. 10, 6.24.

F246. City of Hialeah. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 5, T. 53 S., R. 41 E. Records available: 1939-45, 1947, 1949. Feb. 15, 6.79; Aug. 10, 6.06.

F253. City of Hialeah. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 12, T. 53 S., R. 40 E. Records available: 1939-45, 1947, 1949. Feb. 8, 3.54; Aug. 10, 2.37.

F257. City of Hialeah. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	2.53	Apr. 28	2.69	July 29	2.90	Oct. 31	1.15
Feb. 15	3.07	May 31	2.96	Aug. 31	2.23	Nov. 30	2.07
28	3.49	June 30	2.69	Sept. 30	.69	Dec. 29	1.65
Mar. 30	2.63						

F260. City of Hialeah. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	7.30	Apr. 28	7.07	July 29	7.34	Oct. 31	5.59
Feb. 15	7.69	May 31	7.31	Aug. 31	6.40	Nov. 30	6.67
28	8.00	June 30	6.90	Sept. 30	5.25	Dec. 29	6.39
Mar. 30	7.06						

F261. City of Hialeah. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	6.55	Apr. 28	6.05	July 29	6.39	Oct. 31	4.75
Feb. 28	7.10	May 31	6.21	Aug. 31	5.61	Nov. 30	5.86
Mar. 30	6.02	June 30	6.01	Sept. 30	4.21	Dec. 29	5.66

F263. City of Hialeah. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	7.03	Apr. 28	6.54	July 29	6.90	Oct. 31	5.21
Feb. 15	7.41	May 31	6.81	Aug. 31	6.13	Nov. 30	6.34
28	7.62	June 30	6.53	Sept. 30	4.71	Dec. 29	6.14
Mar. 30	6.49						

F264. City of Hialeah. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1939-49.

## F264--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	6.87	Apr. 28	6.31	July 29	6.67	Oct. 31	4.98
Feb. 28	7.40	May 31	6.58	Aug. 31	5.84	Nov. 30	6.10
Mar. 30	6.29	June 30	6.25	Sept. 30	4.50	Dec. 29	5.88

F265. City of Hialeah. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	6.44	Apr. 28	5.97	July 29	6.32	Oct. 31	4.60
Feb. 28	7.04	May 31	6.23	Aug. 31	5.45	Nov. 30	5.73
Mar. 30	5.96	June 30	6.43	Sept. 30	4.16	Dec. 29	5.52

F266. City of Hialeah. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	7.29	Apr. 28	6.84	July 29	7.18	Oct. 31	5.47
Feb. 15	7.66	May 31	7.10	Aug. 31	6.31	Nov. 30	6.59
28	7.87	June 30	6.70	Sept. 30	5.04	Dec. 29	6.38
Mar. 30	6.84						

F268. City of Hialeah. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	5.00	Apr. 28	4.50	July 29	4.84	Oct. 31	3.19
Feb. 28	5.58	May 31	4.77	Aug. 31	4.09	Nov. 30	4.29
Mar. 30	4.45	June 30	4.52	Sept. 30	2.70	Dec. 29	4.08

F270. City of Hialeah. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1939-49. Destroyed; measurements discontinued.

Jan. 28	6.07	Apr. 28	5.51	July 29	5.95	Sept. 30	3.75
Feb. 28	6.76	May 31	5.82	Aug. 31	5.08	Oct. 31	4.11
Mar. 30	5.54	June 30	7.13				

F271. City of Hialeah. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1939-49.

Jan. 28	7.19	Apr. 28	6.62	July 29	7.01	Oct. 31	5.18
Feb. 28	7.82	May 31	6.91	Aug. 31	6.14	Nov. 30	6.33
Mar. 30	6.82	June 30	7.48	Sept. 30	4.83	Dec. 29	6.11

F273. Town of North Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29, T. 52 S., R. 42 E. Records available: 1939-45, 1947, 1949. Feb. 18, 12.64; Aug. 4, 12.12.

F279. Town of North Miami. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 30, T. 52 S., R. 42 E. Records available: 1939-49. Jan. 11, 7.04; Aug. 4, 6.01.

F281. Town of North Miami. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 30, T. 52 S., R. 42 E. Records available: 1939-45, 1947, 1949. Feb. 8, 6.22; Aug. 4, 6.00.

F283. Town of North Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 52 S., R. 42 E. Records available: 1939-45, 1947, 1949. Feb. 8, 7.93; Aug. 8, 7.59.

F284. Town of North Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 26, T. 52 S., R. 41 E. Records available: 1939-49. Jan. 11, 9.93; Feb. 8, 10.18; Aug. 8, 9.43.

F288. Town of North Miami Beach. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 52 S., R. 42 E. Records available: 1939-45, 1947, 1949. Feb. 8, 7.63; Aug. 11, 7.27.

F296. Town of North Miami Beach. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 21, T. 52 S., R. 42 E. Records available: 1939-49.

Jan. 11	8.92	Mar. 29	8.96	Aug. 11	8.07	Dec. 7	8.52
Feb. 8	8.95	June 2	8.82	Oct. 5	7.91		

F297. Town of North Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 52 S., R. 42 E. Records available: 1939-49. Jan. 11, 8.20; Feb. 8, 8.48; Aug. 3, 8.12.

F299. Village of Biscayne Park. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 30, T. 52 S., R. 42 E. Records available: 1939-45, 1947-49. Jan. 11, 7.38; Feb. 8, 7.59; Aug. 11, 6.47.

F300. Town of North Miami Beach. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 9, T. 52 S., R. 42 E. Records available: 1939-49. Jan. 10, 9.55; Aug. 3, 9.04.

F302. City of Coral Gables. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 17, T. 54 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 15, 8.96.

F307. City of Coral Gables. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 20, T. 54 S., R. 41 E. Records available: 1940-45, 1947, 1949. Jan. 15, 11.89; July 7, 10.93.

F309. City of Coral Gables. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 18, T. 54 S., R. 41 E. Records available: 1940-45, 1949. Feb. 15, 10.86.

F310. City of Coral Gables. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 7, T. 54 S., R. 41 E. Records available: 1940-44, 1947. Destroyed, measurements discontinued.

F317. City of Coral Gables. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 7, T. 54 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 15, 8.46.

F319. Town of South Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, T. 54 S., R. 40 E. Records available: 1940-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	9.00	9.25	July 8	8.61	8.81
14	9.25	9.44	15	8.81	8.93
21	9.38	9.43	22	8.93	9.13
28	9.42	9.57	29	8.96	9.05
Feb. 4	9.57	9.59	Aug. 5	8.96	9.08
11	9.56	9.74	12	9.08	9.13
18	9.74	9.80	19	9.13	9.24
25	9.80	9.84	26	9.24	9.36
Mar. 4	9.86	9.91	Sept. 2	9.06	9.28
11	9.86	9.91	9	8.92	9.06
18	9.85	9.90	16	8.92	9.01
25	8.92	9.95	23	8.99	9.15
Apr. 1	9.20	9.62	30	8.29	9.13
8	9.62	9.89	Oct. 7	7.71	8.29
15	9.23	9.93	14	7.25	7.79
22	8.42	9.23	21	7.25	7.69
29	8.50	8.99	28	7.67	7.82
May 6	8.64	9.24	Nov. 4	7.75	8.17
13	8.58	8.86	11	8.17	8.49
20	8.55	8.79	18	8.49	8.58
27	8.79	9.12	25	8.58	8.81
June 3	9.12	9.22	Dec. 2	8.81	9.07
10	9.09	9.15	9	9.07	9.22
17	6.45	9.15	16	9.20	9.26
24	6.97	7.88	23	9.24	9.26
July 1	7.88	8.61	30	8.93	9.28

F322. Town of South Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, T. 54 S., R. 40 E. Records available: 1940-45, 1947, 1949. Feb. 8, 12.35; July 7, 11.55.

F331. Town of South Miami. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 54 S., R. 40 E. Records available: 1940-45, 1947, 1949. Feb. 8, 6.82; July 12, 5.97.

F332. City of Hialeah. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.03	Apr. 28	4.30	July 29	4.90	Oct. 31	2.57
Feb. 28	5.89	May 31	4.77	Aug. 31	4.04	Nov. 30	4.08
Mar. 30	4.33	June 30	4.64	Sept. 30	2.69	Dec. 29	3.79

## WATER LEVELS AND ARTESIAN PRESSURE, 1949, SOUTHEASTERN STATES

F334. Town of Homestead. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 7, T. 57 S., R. 39 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 8, 7.69; Aug. 1, 5.14.

F358. Town of Homestead. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T. 57 S., R. 38 E. Records available: 1940-49.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	5.36	5.52	July 8	3.95	4.29
14	5.52	5.69	15	3.96	4.27
21	5.69	5.79	22	3.89	4.47
28	5.77	5.92	29	3.58	3.94
Feb. 4	5.92	6.04	Aug. 5	3.51	3.86
11	6.04	6.28	12	3.19	3.76
18	6.28	6.45	19	3.51	4.18
25	6.45	6.62	26	4.14	4.33
Mar. 4	6.62	6.81	Sept. 2	4.00	4.33
11	6.81	6.99	9	4.02	4.58
18	6.99	7.11	16	3.91	4.60
25	6.86	7.13	23	4.26	4.44
Apr. 1	6.96	7.23	30	2.81	4.56
8	7.17	7.34	Oct. 7	2.81	3.27
15	7.18	7.37	14	2.35	3.44
22	6.35	7.37	21	2.48	3.39
29	6.35	6.54	28	.68	3.68
May 6	5.84	6.61	Nov. 4	2.02	3.10
13	5.44	5.84	11	3.10	3.71
20	5.37	5.50	18	2.77	3.83
27	5.50	5.94	25	3.21	3.90
June 3	5.94	6.08	Dec. 2	3.90	4.38
10	5.48	5.96	9	4.38	4.73
17	2.06	5.48	16	4.73	5.07
24	2.20	3.38	23	5.07	5.27
July 1	3.38	4.12	30	5.11	5.30

F364. Town of Homestead. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, T. 57 S., R. 38 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 8, 7.78; Aug. 3, 5.01.

F378. Town of Florida City. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 57 S., R. 38 E. Records available: 1940-43, 1945-49.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	4.92	5.06	July 8	3.68	4.00
14	5.06	5.21	15	3.91	4.20
21	5.21	5.29	22	3.65	4.24
28	5.25	5.41	29	3.34	3.74
Feb. 4	5.41	5.54	Aug. 5	3.02	3.64
11	5.54	5.73	12	3.03	3.52
18	5.73	5.94	19	3.34	3.90
25	5.92	6.05	26	3.64	3.96
Mar. 4	6.05	6.24	Sept. 2	3.48	3.94
11	6.24	6.40	9	3.54	4.18
18	6.40	6.49	16	1.74	4.18
25	6.07	6.52	23	3.66	4.00
Apr. 1	6.27	6.60	30	2.36	4.08
8	6.44	6.74	Oct. 7	2.53	3.09
15	6.47	6.73	14	2.31	3.23
22	5.49	6.70	21	2.56	3.28
29	5.55	5.91	28	1.22	3.52
May 6	5.01	5.99	Nov. 4	2.09	2.96
13	4.77	5.22	11	2.96	3.46
20	4.70	4.93	18	1.97	3.56
27	4.93	5.46	25	2.91	3.56
June 3	5.30	5.56	Dec. 2	3.56	4.02
10	4.83	5.30	9	4.02	4.33
17	2.14	4.83	16	4.33	4.66
24	2.02	3.15	23	4.63	4.81
July 1	3.15	3.83	30	4.60	4.83

F379. Town of Naranja. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 34, T. 56 S., R. 39 E. Records available: 1940-49. Jan. 4, 6.88; Feb. 8, 8.13; June 27, 5.60; Dec. 5, 6.50.

F380. Town of Princeton. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 36, T. 56 S., R. 39 E. Records available: 1940-43, 1945-49. Jan. 4, 8.31; Feb. 8, 9.54; June 27, 7.01; Dec. 5, 7.95.

F381. J. D. DeBucharanne. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 21, T. 56 S., R. 39 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 15, 9.25.

F384. Bjorkman. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 10, T. 56 S., R. 39 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 8, 8.01.

F385. Town of Goulds. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 13, T. 56 S., R. 39 E. Records available: 1940-49. Jan. 26, 8.61; May 19, 7.62; June 27, 6.60; Dec. 5, 7.24.

F387. State of Florida. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 58 S., R. 37 E. Records available: 1940-43, 1945-47, 1949.

Date	Water level	Date	Water level	Date	Water level
Feb. 15	3.71	Aug. 2	1.59	Dec. 5	1.79
June 27	1.58	Sept. 28	1.63		

F393. City of Miami Springs. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1941-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	4.90	Apr. 28	4.38	July 29	4.68	Oct. 31	2.95
Feb. 28	5.40	May 31	4.78	Aug. 31	3.98	Nov. 30	4.10
Mar. 30	4.20	June 30	4.40	Sept. 30	2.42	Dec. 29	3.83

F394. City of Miami Springs. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1941-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.09	Apr. 28	4.57	July 29	4.97	Oct. 31	3.34
Feb. 28	5.61	May 31	4.88	Aug. 31	4.30	Nov. 30	4.41
Mar. 30	4.46	June 30	4.66	Sept. 30	2.86	Dec. 29	4.22

F396. City of Miami Springs. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	3.17	Apr. 28	3.15	July 29	3.47	Oct. 31	1.41
Feb. 28	4.52	May 31	3.49	Aug. 31	2.78	Nov. 30	2.40
Mar. 30	3.02	June 30	3.38	Sept. 30	1.43	Dec. 29	2.40

F397. City of Miami Springs. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	3.99	Apr. 28	4.01	July 29	4.34	Oct. 31	2.42
Feb. 28	5.24	May 31	4.27	Aug. 31	3.86	Nov. 30	3.34
Mar. 30	3.89	June 30	4.36	Sept. 30	2.46	Dec. 29	3.26

F398. City of Miami Springs. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	4.64	Apr. 28	4.65	July 29	4.96	Oct. 31	3.05
Feb. 28	5.89	May 31	4.93	Aug. 31	4.47	Nov. 30	3.98
Mar. 30	4.53	June 30	4.97	Sept. 30	3.08	Dec. 29	3.92

F399. City of Miami Springs. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.16	Apr. 28	5.15	July 29	5.43	Oct. 31	3.47
Feb. 28	6.45	May 31	5.49	Aug. 31	4.83	Nov. 30	4.45
Mar. 30	5.03	June 30	5.39	Sept. 30	3.44	Dec. 29	4.42

F408. City of Miami Springs. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E.  
Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.16	Apr. 28	5.14	July 29	5.49	Oct. 31	3.51
Feb. 28	6.47	May 31	5.41	Aug. 31	5.01	Nov. 30	4.47
Mar. 30	5.06	June 30	5.56	Sept. 30	3.46	Dec. 29	4.40

F409. City of Miami Springs. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E.  
Records available: 1945-49.

Jan. 28	4.49	May 31	4.77	Aug. 31	4.37	Nov. 30	3.83
Mar. 30	4.39	June 30	4.88	Sept. 30	2.90	Dec. 29	3.77
Apr. 30	4.52	July 29	4.85	Oct. 31	2.91		

F410. City of Miami Springs. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E.  
Records available: 1945-49.

Jan. 28	4.82	Apr. 28	4.81	July 29	5.09	Oct. 31	3.11
Feb. 28	6.10	May 31	5.13	Aug. 31	4.49	Nov. 30	4.07
Mar. 30	4.66	June 30	5.05	Sept. 30	3.14	Dec. 29	4.06

F411. City of Miami Springs. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E.  
Records available: 1945-49.

Jan. 28	5.01	Apr. 28	4.90	July 29	5.17	Oct. 31	3.07
Feb. 28	6.40	May 31	5.33	Aug. 31	4.43	Nov. 30	4.13
Mar. 30	4.75	June 30	5.04	Sept. 30	3.13	Dec. 29	4.15

F412. City of Miami Springs. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E.  
Records available: 1945-49.

Jan. 28	5.30	Apr. 28	5.16	July 29	5.46	Oct. 31	3.33
Feb. 28	6.73	May 31	5.62	Aug. 31	4.71	Nov. 30	4.43
Mar. 30	4.98	June 30	5.26	Sept. 30	3.33	Dec. 29	4.45

F413. City of Miami Springs. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E.  
Records available: 1945-49.

Jan. 28	6.20	Apr. 28	6.08	July 29	6.19	Oct. 31	4.17
Feb. 28	7.47	May 31	6.54	Aug. 31	5.46	Nov. 30	5.33
Mar. 30	5.86	June 30	6.01	Sept. 30	4.11	Dec. 29	5.37

F414. City of Miami Springs. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E.  
Records available: 1945-49.

Jan. 28	6.62	Apr. 28	6.11	July 29	6.06	Oct. 31	3.93
Feb. 28	7.72	May 31	6.85	Aug. 31	5.11	Nov. 30	5.25
Mar. 30	5.85	June 30	5.61	Sept. 30	3.82	Dec. 29	5.15

F415. City of Miami Springs. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E.  
Records available: 1945-49.

Jan. 28	5.45	Apr. 28	5.00	July 29	5.27	Oct. 31	3.77
Feb. 28	5.94	May 31	5.34	Aug. 31	4.69	Nov. 30	4.81
Mar. 30	4.87	June 30	5.05	Sept. 30	2.98	Dec. 29	4.56

F416. City of Miami Springs. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, T. 53 S., R. 41 E.  
Records available: 1945-49.

Jan. 28	5.31	Apr. 28	4.50	July 29	5.06	Oct. 31	3.10
Feb. 28	6.17	May 31	5.15	Aug. 31	4.27	Nov. 30	4.30
Mar. 30	4.66	June 30	4.96	Sept. 30	2.94	Dec. 29	6.18

G2. U. S. Geological Survey. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E.  
Records available: 1940-48. Destroyed, measurements discontinued.

G3. U. S. Geological Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E.  
Records available: 1940-49.

G3--Continued.

High and low water level, from recorder charts					
Week ending	High	Low	Week ending	High	Low
Jan. 7	2.26	2.96	July 15	3.76	4.34
14	2.86	3.29	22	3.51	3.98
21	3.13	3.57	29	3.75	....
28	3.43	3.81	Aug. 12	3.76	4.29
Feb. 4	3.63	4.60	19	3.94	4.35
18	4.37	4.87	26	3.55	4.43
25	4.80	5.13	Sept. 2	2.95	3.57
Mar. 4	4.99	5.23	9	2.94	3.67
11	5.13	5.39	16	3.38	3.75
18	4.29	5.39	23	3.46	3.89
25	....	4.38	30	....	3.46
Apr. 1	3.70	3.98	Oct. 7	1.50	2.06
8	3.60	3.98	14	1.78	2.33
15	3.09	3.78	21	1.74	1.96
29	3.50	3.85	28	1.84	2.27
May 6	3.13	3.86	Nov. 4	2.00	2.33
13	3.21	3.67	11	2.33	2.48
20	3.29	3.77	18	2.35	2.58
27	3.50	4.14	25	2.45	3.05
June 3	3.68	4.10	Dec. 2	2.96	3.55
10	3.42	3.90	9	2.55	3.92
17	....	3.56	16	3.63	4.10
24	2.86	3.45	23	3.76	4.09
July 1	3.45	4.13	30	3.17	4.09
8	3.81	4.34			

G5. U. S. Geol. Survey.  $NE\frac{1}{4}SW\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1940-49.

Date	water level	Date	water level	Date	water level	Date	water level
Jan. 28	3.04	Apr. 28	2.95	July 29	3.33	Oct. 31	1.28
Feb. 28	4.27	May 31	3.28	Aug. 31	2.73	Nov. 30	2.47
Mar. 30	3.06	June 30	3.26	Sept. 30	1.23	Dec. 29	2.38

G6. U. S. Geol. Survey.  $SW\frac{1}{4}SE\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1940-49.

Jan. 28	6.58	Apr. 28	6.25	July 29	6.52	Oct. 31	3.82
Feb. 28	8.13	May 31	6.47	Aug. 31	4.84	Nov. 30	5.61
Mar. 30	6.51	June 30	6.30	Sept. 30	3.87	Dec. 29	5.41

G7. U. S. Geol. Survey.  $SW\frac{1}{4}SW\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1940-49.

Jan. 28	8.73	Apr. 28	8.32	July 29	8.41	Oct. 31	6.75
Feb. 28	9.48	May 31	8.83	Aug. 31	7.66	Nov. 30	7.84
Mar. 30	8.11	June 30	8.12	Sept. 30	3.29	Dec. 29	7.68

G8. U. S. Geol. Survey.  $NW\frac{1}{4}NE\frac{1}{4}$  sec. 25, T. 53 S., R. 40 E. Records available: 1940-49.

Jan. 28	7.41	Apr. 28	7.20	July 29	7.33	Oct. 31	5.45
Feb. 28	8.48	May 31	7.69	Aug. 31	6.49	Nov. 30	6.55
Mar. 30	7.05	June 30	7.04	Sept. 30	5.24	Dec. 29	6.58

G9. U. S. Geol. Survey.  $SW\frac{1}{4}NW\frac{1}{4}$  sec. 3, T. 54 S., R. 40 E. Records available: 1940-43, 1945, 1949. Feb. 15, 1.98; Nov. 14, 0.26; Dec. 16, 1.40; Dec. 23, 1.42.

G10. U. S. Geol. Survey.  $NW\frac{1}{4}SW\frac{1}{4}$  sec. 4, T. 54 S., R. 40 E. Records available: 1940-49.



## G10--Continued.

High and low weekly water level, from recorder charts					
Week ending	High	Low	Week ending	High	Low
Jan. 7	1.19	1.45	July 8	1.80	2.70
14	1.45	1.67	15	2.18	2.63
21	1.67	1.84	22	1.43	2.63
28	1.83	2.05	29	2.14	2.43
Feb. 4	2.05	2.24	Aug. 5	2.16	2.43
11	2.24	2.44	12	1.58	2.26
18	2.44	2.61	19	1.99	2.52
25	2.61	2.74	26	2.00	2.57
Mar. 4	2.74	2.89	Sept. 2	.48	2.17
11	2.89	3.08	9	.87	....
18	3.08	3.22	23	2.03	2.22
25	.78	3.24	30	.17	2.22
Apr. 1	2.66	3.17	Oct. 7	.05	.50
8	2.30	3.33	14	+0.09	.79
15	.72	3.02	21	.05	.64
22	.86	1.86	28	.18	.78
29	1.86	2.54	Nov. 4	.36	.97
May 6	1.25	2.79	11	.87	1.02
13	1.96	2.64	18	.52	1.08
20	2.24	2.76	25	1.04	1.32
27	2.76	3.00	Dec. 2	1.32	1.58
June 3	2.32	2.94	9	1.58	1.80
10	2.06	2.61	16	1.80	1.94
17	.24	2.33	23	1.74	1.93
24	.90	1.92	30	.57	1.93
July 1	1.92	2.64			

G11. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 5, T. 54 S., R. 40 E. Records available: 1940-43, 1945, 1949. Feb. 15, 3.48; Nov. 14, 1.57.

G12. U. S. Geol. Survey. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 23, T. 53 S., R. 40 E. Records available: 1940-45, 1949. Feb. 15, 5.18; Nov. 15, 3.46.

G15. U. S. Geol. Survey. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, T. 53 S., R. 40 E. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.15	Apr. 28	4.94	July 29	5.04	Oct. 31	3.54
Feb. 28	5.70	May 31	5.33	Aug. 31	4.35	Nov. 30	4.56
Mar. 30	4.94	June 30	4.83	Sept. 30	2.99	Dec. 29	4.36

G18. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 57 S., R. 40 E. Records available: 1940-43, 1945. No measurement made in 1949.

G23. U. S. Geol. Survey. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, T. 55 S., R. 38 E. Records available: 1940-45, 1947, 1949. Jan. 26, 3.51; Feb. 8, 3.87; Oct. 10, 1.36.

G24. U. S. Geol. Survey. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 55 S., R. 38 E. Records available: 1940-43, 1945, 1947, 1949. Jan. 26, 2.63; Feb. 8, 2.96; Oct. 10, 1.11.

G25. U. S. Geol. Survey. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 1, T. 55 S., R. 38 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 15, 2.49; Oct. 10, 0.67.

G28. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 34, T. 55 S., R. 38 E. Records available: 1940-43, 1945, 1947, 1949. Jan. 26, 3.80; Feb. 15, 3.42; Sept. 13, 2.48; Oct. 10, 1.07; Dec. 20, 2.32.

G36. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 54 S., R. 40 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 8, 3.62; Oct. 10, 1.78.

G38. U. S. Geol. Survey. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, T. 57 S., R. 39 E. Records available: 1940-43, 1945-49. Jan. 3, 3.13; Feb. 15, 3.69; Apr. 6, 4.02; May 27, 3.38; Aug. 1, 2.43; Sept. 28, 2.33; Dec. 5, 3.01.

G39. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 22, T. 54 S., R. 40 E. Records available: 1940-43, 1945, 1947, 1949. Recorder re-installed January 13, 1949.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 21	3.51	3.75	July 15	3.65	3.84
28	3.75	3.93	22	3.42	3.97
Feb. 4	3.93	4.11	29	3.42	3.58
11	4.11	4.31	Aug. 5	3.58	3.75
18	4.31	4.50	12	3.52	3.76
25	4.50	4.69	19	3.49	3.72
Mar. 4	4.69	4.83	26	3.72	3.94
11	4.83	5.01	Sept. 2	3.23	3.92
18	5.01	5.16	9	3.19	3.52
25	4.14	5.19	16	3.52	3.67
Apr. 1	4.19	4.58	23	3.67	3.80
8	4.58	4.82	30	2.50	3.87
15	3.88	4.90	Oct. 7	1.90	2.50
22	2.96	3.88	14	1.29	2.22
29	2.78	3.40	21	1.39	2.14
May 6	3.29	3.79	28	1.70	2.35
13	3.27	3.59	Nov. 4	1.81	2.34
20	3.36	3.62	11	2.34	2.69
27	3.62	4.15	18	2.51	2.78
June 3	4.15	4.43	25	2.68	3.03
10	4.41	4.50	Dec. 2	3.03	3.35
17	1.91	4.41	9	3.35	3.59
24	2.00	2.76	16	3.59	3.82
July 1	2.76	3.51	23	3.82	3.94
8	3.51	3.79	30	3.21	3.95

G66. U. S. Geol. Survey. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 29, T. 57 S., R. 28 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 8, 4.29.

G67. U. S. Geol. Survey. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 55 S., R. 40 E. Records available: 1940-43, 1945, 1949. Feb. 8, 6.11; Sept. 12, 4.10.

G72. U. S. Geol. Survey. Lower Everglades area. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 3, T. 52 S., R. 39 E. Records available: 1940-49.

G72--Continued.

High and low weekly water level, from recorder charts					
Week ending	High	Low	Week ending	High	Low
Jan. 7	+1.25	+1.11	July 8	0.61	0.73
14	+1.11	+ .92	15	.27	.69
21	+ .92	+ .72	22	.24	.37
28	+ .72	+ .54	29	.04	.25
Feb. 4	+ .54	+ .34	Aug. 5	+ .04	.09
11	+ .34	+ .09	12	+ .13	+ .03
18	+ .09	.19	19	+ .13	.01
25	.19	.47	26	.01	.13
Mar. 4	.47	.90	Sept. 2	+ .33	.13
11	.90	1.52	9	+ .33	+ .28
18	1.52	1.89	16	+ .28	+ .25
25	1.89	2.16	23	+ .25	+ .23
Apr. 1	2.16	2.51	30	+ .74	+ .23
8	1.87	2.72	Oct. 7	+ .90	+ .74
15	2.05	2.58	14	+1.04	+ .88
22	1.80	2.34	21	+1.02	+ .95
29	2.34	2.72	28	+1.05	+ .92
May 6	1.12	2.72	Nov. 4	+1.02	+ .95
13	1.61	2.26	11	+ .95	+ .89
20	1.78	2.39	18	+ .90	+ .85
27	2.39	2.96	25	+ .85	+ .74
June 3	1.16	3.03	Dec. 2	+ .74	+ .59
10	1.11	1.88	9	+ .59	+ .47
17	.44	1.42	16	+ .47	+ .33
24	.46	.65	23	+ .33	+ .15
July 1	.45	.65	30	+ .43	+ .15

G82. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 52 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 8, 6.17.

G105. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 52 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 15, 1.67.

G107. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, T. 53 S., R. 42 E. Records available: 1940-45, 1947, 1949. Feb. 15, 11.53.

G108. U. S. Geol. Survey. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 18, T. 53 S., R. 42 E. Records available: 1940-45, 1947, 1949. Feb. 15, 4.80.

G109. U. S. Geol. Survey. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 53 S., R. 41 E. Records available: 1940-45. Destroyed, measurement discontinued.

G110. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 21, T. 53 S., R. 41 E. Records available: 1940-44. Destroyed, measurement discontinued.

G112. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 25, T. 53 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 18, 14.33.

G113. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 25, T. 53 S., R. 41 E. Records available: 1940-45, 1947. Destroyed, measurement discontinued.

G114. U. S. Geol. Survey. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, T. 53 S., R. 41 E. Records available: 1940-45, 1947. Destroyed, measurement discontinued.

G115. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 36, T. 53 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 15, 10.94.

G117. U. S. Geol. Survey. North area of sec. 38, T. 54 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 15, 7.11.

G119. U. S. Geol. Survey. Sec. 36, T. 53 S., R. 41 E. Records available: 1940-45, 1949. Feb. 15, 10.58.

G120. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 31, T. 53 S., R. 42 E. Records available: 1940-45. Destroyed, measurement discontinued.

G121. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 53 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 15, 7.60.

G122. U. S. Geol. Survey. Sec. 38, T. 54 S., R. 41 E. Records available: 1940-45, 1947. Destroyed, measurement discontinued.

G123. U. S. Geol. Survey. Sec. 38, T. 54 S., R. 41 E. Records available: 1940-45, 1947, 1949. Feb. 15, 7.40.

G165. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 12, T. 53 S., R. 40 E. Records available: 1941-45, 1949. Feb. 15, 3.51.

G193. U. S. Geol. Survey. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29, T. 53 S., R. 41 E. Records available: 1941-49. Jan. 28, 4.98; Feb. 28, 5.05; Mar. 30, 4.47. Destroyed, measurement discontinued.

G195. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1941-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	4.32	Apr. 28	3.80	July 29	5.18	Oct. 31	2.68
Feb. 28	4.70	May 31	4.06	Aug. 31	3.64	Nov. 30	3.70
Mar. 30	3.72	June 30	3.94	Sept. 30	2.08	Dec. 29	3.52

G197. U. S. Geol. Survey. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1941-49.

Jan. 28	5.50	Apr. 28	5.07	June 30	5.29	Aug. 31	4.02
Feb. 28	5.64	May 31	5.33	July 29	5.16	Sept. 30	(a)
Mar. 30	5.13						

a Destroyed.

G199. U. S. Geol. Survey. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1941-49.

Jan. 28	3.20	Apr. 28	2.76	July 29	3.24	Oct. 31	1.70
Feb. 28	2.97	May 31	2.92	Aug. 31	2.66	Nov. 30	2.66
Mar. 30	2.67	June 30	2.95	Sept. 30	1.04	Dec. 29	2.43

G218. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 53 S., R. 40 E. Records available: 1945-49.

High and low weekly water level, from recorder charts

week ending	High	Low	week ending	High	Low
Feb. 11	+1.16	+ .97	Aug. 5	+1.32	+1.25
18	+ .97	+ .67	12	+1.33	+1.27
25	+ .67	+ .38	19	+1.27	+1.12
Mar. 4	+ .44	.18	26	+1.20	+1.17
11	.18	.64	Sept. 2	+1.30	+1.19
18	.64	.85	9	+1.33	+1.30
25	.45	.86	16	+1.33	+1.33
Apr. 1	.63	.96	23	+1.35	+1.32
8	.05	1.10	30	+1.77	+1.33
15	+ .41	.62	Oct. 7	+1.94	+1.77
29	+ .60	.03	14	+2.04	+1.94
May 6	+ .22	.16	21	+2.05	+1.97
13	+ .02	.43	28	+1.99	+1.61
20	+ .02	.61	Nov. 4	+1.99	+1.90
27	.61	1.10	11	+1.90	+1.78
June 3	.17	1.22	18	+1.78	+1.74
10	.05	.77	25	+1.74	+1.59
17	+1.07	.05	Dec. 2	+1.59	+1.50
24	+1.09	+1.02	9	+1.50	+1.41
July 1	+1.05	+ .81	16	+1.41	+1.31
8	+1.05	+ .77	23	+1.31	+1.28
29	+1.28	+1.13	30	+1.48	+1.27

G231. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 55 S., R. 41 E. Records available: 1941-43, 1945, 1947, 1949.

Date	Water level	Date	Water level	Date	water level	Date	water level
Feb. 8	9.81	June 6	8.77	Sept. 12	8.64	Dec. 6	9.38
Apr. 7	9.87	July 7	8.98	Oct. 4	8.40	27	8.92
27	9.27	Aug. 2	9.00	27	8.11		

G232. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T. 55 S., R. 40 E. Records available: 1941-43, 1945, 1947, 1949.

May 19	16.63	Aug. 2	17.17	Oct. 4	16.50	Dec. 6	17.54
June 2	17.07	Sept. 13	16.77	27	16.34	27	17.15

G235. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 11, T. 55 S., R. 40 E. Records available: 1941-43, 1945, 1947, 1949. Feb. 8, 7.10; June 28, 5.50.

G238. U. S. Geol. Survey. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 55 S., R. 40 E. Records available: 1941-44, 1947, 1949. Feb. 8, 7.88.

G254. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 32, T. 54 S., R. 41 E. Records available: 1941-43, 1945, 1947, 1949. Feb. 8, 14.75.

G272. U. S. Geol. Survey. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 22, T. 53 S., R. 40 E. Records available: 1941-43, 1945, 1949. Feb. 15, 2.39.

G275. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 31, T. 53 S., R. 40 E. Records available: 1941-43, 1945, 1949. Feb. 15, 1.71.

G277. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 56 S., R. 40 E. Records available: 1941-43, 1945, 1947, 1949.

Feb. 15	8.40	Apr. 27	8.34	Aug. 2	5.65	Oct. 27	5.03
24	8.56	June 6	7.65	Sept. 12	6.01	Dec. 6	7.03
Apr. 7	8.41	July 8	7.57	Oct. 4	5.09	27	7.12

G282. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 5, T. 56 S., R. 49 E. Records available: 1941-43, 1945, 1947, 1949. Feb. 8, 6.94; Sept. 13, 5.90; Oct. 10, 3.99.

G283. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 17, T. 56 S., R. 40 E. Records available: 1941-43, 1945, 1949. Feb. 15, 3.98.

G285. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 9, T. 57 S., R. 33 E. Records available: 1941-43, 1945, 1949. Feb. 15, 6.10.

G348. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1943-49.

Jan. 28	4.89	Apr. 28	4.43	July 29	4.75	Oct. 31	2.36
Feb. 28	6.23	May 31	4.90	Aug. 31	3.53	Nov. 30	3.79
Mar. 30	4.39	June 30	4.43	Sept. 30	2.30	Dec. 29	3.63

G349. U. S. Geol. Survey. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1943-49.

Jan. 28	4.90	Apr. 28	4.68	July 29	4.94	Oct. 31	2.71
Feb. 28	6.32	May 31	5.10	Aug. 31	3.94	Nov. 30	3.90
Mar. 30	4.73	June 30	4.85	Sept. 30	2.63	Dec. 29	3.94

G350. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 14, T. 54 S., R. 40 E. Records available: 1944-49.

High and low weekly water level, from recorder charts

week ending	High	Low	week ending	High	Low
Jan. 7	3.75	4.04	Feb. 11	4.77	4.95
14	4.04	4.28	18	4.95	5.09
21	4.28	4.44	25	5.09	4.25
28	4.44	4.65	Mar. 4	5.25	5.33
Feb. 4	4.65	4.77	11	5.33	5.46

## G350--Continued.

High and low weekly water level, from recorder charts

week ending	High	Low	week ending	High	Low
Mar. 18	5.46	5.58	Aug. 12	4.64	4.94
25	4.44	5.62	19	4.62	4.83
Apr. 1	4.84	5.32	26	4.83	4.91
8	5.32	5.52	Sept. 9	3.92	4.42
15	4.85	5.49	16	4.32	4.44
22	4.43	4.85	23	4.44	4.62
29	4.63	5.07	30	3.21	4.62
May 6	4.74	5.24	Oct. 7	2.99	3.49
13	4.74	4.99	14	2.70	3.51
20	4.59	4.87	21	2.93	3.33
27	4.67	5.08	28	3.02	3.44
June 3	4.66	4.91	Nov. 4	3.22	3.52
10	4.52	4.66	11	3.52	3.73
17	2.97	4.60	18	3.48	3.75
24	3.61	4.20	25	3.68	3.96
July 1	4.20	4.63	Dec. 2	3.95	4.28
8	4.63	4.75	9	4.28	4.39
15	4.64	4.84	16	4.39	4.52
22	4.69	4.95	23	4.50	4.54
29	4.71	4.86	30	3.73	4.54
Aug. 5	4.84	4.94			

G353. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29, T. 53 S., R. 41 E. Records available: 1944-49.

Date	water level	Date	water level	Date	Water level	Date	water level
Jan. 28	4.49	Apr. 28	4.20	Aug. 31	3.53	Nov. 30	3.62
Feb. 28	4.57	June 30	3.70	Sept. 30	2.28	Dec. 29	3.28
Mar. 30	4.23	July 29	3.69	Oct. 31	2.39		

G354. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1944-49.

Jan. 28	5.51	Apr. 28	5.06	July 29	5.26	Oct. 31	4.02
Feb. 28	5.68	May 31	5.32	Aug. 31	4.93	Nov. 30	5.00
Mar. 30	5.05	June 30	5.24	Sept. 30	3.26	Dec. 29	4.75

G355. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1944-49.

Jan. 28	3.44	Apr. 28	3.97	July 29	3.29	Oct. 31	1.92
Feb. 28	3.67	May 31	3.21	Aug. 31	2.65	Nov. 30	2.90
Mar. 30	2.90	June 30	3.14	Sept. 30	1.22	Dec. 29	2.68

G356. U. S. Geol. Survey. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. Records available: 1944-49.

Jan. 28	5.23	Apr. 28	4.71	July 29	5.10	Oct. 31	3.78
Feb. 28	5.37	May 31	4.93	Aug. 31	4.80	Nov. 30	4.70
Mar. 30	4.64	June 30	4.99	Sept. 30	3.19	Dec. 29	4.54

G357. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1944-49.

Jan. 28	4.31	Apr. 28	3.74	July 29	4.22	Oct. 31	1.95
Feb. 28	5.38	May 31	4.19	Aug. 31	3.06	Nov. 30	3.30
Mar. 30	3.69	June 30	3.93	Sept. 30	1.84	Dec. 29	3.00

G431. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 20, T. 54 S., R. 41 E. Records available: 1946-49. Jan. 5, 11.34; Feb. 2, 11.52; Feb. 23, 11.83; Apr. 8, 11.57; May 2, 11.08; June 7, 10.01, July 7, 10.68.

G432. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 19, T. 54 S., R. 41 E. Records available: 1946-49.

Jan. 5	10.32	Apr. 8	10.95	July 8	10.08	Oct. 5	9.08
Feb. 2	10.85	May 2	10.26	Aug. 4	10.45	Nov. 14	9.86
23	11.19	June 7	10.09	Sept. 13	10.05	Dec. 7	10.70

G435. U. S. Geol. Survey. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	4.96	Apr. 28	5.06	July 29	5.35	Oct. 31	3.49
Feb. 28	5.02	May 31	5.34	Aug. 31	4.71	Nov. 30	4.46
Mar. 30	4.97	June 30	5.22	Sept. 20	3.08	Dec. 29	4.09

G436. U. S. Geol. Survey. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Jan. 29	5.18	Apr. 28	5.17	July 29	5.52	Oct. 31	3.58
Feb. 28	6.28	May 31	5.47	Aug. 31	4.86	Nov. 30	4.65
Mar. 30	5.08	June 30	5.39	Sept. 30	3.35	Dec. 29	4.30

G437. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Jan. 28	2.64	Apr. 28	2.53	July 29	3.03	Oct. 31	1.11
Feb. 28	3.01	May 31	2.78	Aug. 31	2.90	Nov. 30	1.98
Mar. 30	2.43	June 30	3.00	Sept. 30	1.50	Dec. 29	1.93

G438. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Jan. 28	3.59	Apr. 28	3.63	July 29	4.03	Oct. 31	2.20
Feb. 28	4.86	May 31	3.93	Aug. 31	3.70	Nov. 30	3.21
Mar. 30	3.64	June 30	4.03	Sept. 30	2.05	Dec. 29	3.03

G439. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Jan. 28	4.55	Apr. 28	4.38	July 29	4.71	Oct. 31	2.44
Feb. 28	5.92	May 31	4.84	Aug. 31	3.88	Nov. 30	3.67
Mar. 30	4.70	June 30	4.87	Sept. 30	2.03	Dec. 29	3.90

G440. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Jan. 28	5.00	Apr. 28	4.94	July 29	5.33	Oct. 31	3.35
Feb. 28	6.28	May 31	5.24	Aug. 31	4.94	Nov. 30	4.44
Mar. 30	4.97	June 30	5.44	Sept. 30	3.16	Dec. 29	4.35

G441. U. S. Geol. Survey. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1946-49.

Jan. 28	7.99	Apr. 28	7.47	July 29	7.67	Oct. 31	5.35
Feb. 28	9.23	May 31	8.02	Aug. 31	6.66	Nov. 30	6.82
Mar. 30	7.23	June 30	7.35	Sept. 30	5.33	Dec. 29	6.62

G447. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 11, T. 55 S., R. 39 E. Records available: 1947-49.

Jan. 4	4.31	Apr. 27	5.08	Aug. 2	3.31	Oct. 27	2.05
Feb. 1	5.00	June 6	5.87	Sept. 12	4.24	Dec. 6	4.11
24	5.64	July 7	4.06	Oct. 4	2.77	Dec. 27	4.11
Apr. 7	6.50						

G448. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 55 S., R. 40 E. Records available: 1947-49.

Jan. 4	2.29	Apr. 7	4.36	Aug. 2	1.13	Oct. 27	+ .54
Feb. 1	3.19	27	2.68	Sept. 12	1.65	Dec. 6	1.79
24	3.86	June 6	3.08	Oct. 4	.27	27	1.40

G449. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 22, T. 55 S., R. 40 E. Records available: 1947-49.

Jan. 4	9.27	Apr. 27	9.94	Aug. 2	8.03	Oct. 27	5.95
Feb. 1	10.21	June 6	9.71	Sept. 12	7.97	Dec. 6	8.53
24	10.89	July 8	9.15	Oct. 4	7.01	27	9.37
Apr. 7	10.90						

G450. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 27, T. 55 S., R. 40 E. Records available: 1947-49.

Jan. 5	5.47	Apr. 27	6.12	Aug. 2	4.27	Oct. 27	2.44
Feb. 1	6.13	June 6	5.74	Sept. 12	3.96	Dec. 6	4.75
24	6.93	July 8	5.40	Oct. 4	3.29	27	5.42
Apr. 7	6.90						

G475. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 10, T. 56 S., R. 40 E. Records available: 1947-49.

Jan. 5	2.03	Apr. 27	2.95	Aug. 2	0.64	Oct. 27	0.32
Feb. 1	2.70	June 6	2.21	Sept. 12	.82	Dec. 6	1.55
24	3.08	July 8	2.34	Oct. 4	.34	27	1.67
Apr. 7	2.85						

G476. U. S. Geol. Survey. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 55 S., R. 40 E. Records available: 1947-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	10.83	11.43	July 15	10.68	11.26
14	11.04	11.60	22	10.72	11.12
21	10.74	11.46	29	10.45	11.02
28	10.94	11.65	Aug. 5	10.37	10.94
Feb. 11	11.12	11.84	12	10.47	10.90
18	11.03	11.80	19	10.50	10.97
25	11.11	11.87	26	10.16	11.07
Mar. 4	10.98	11.52	Sept. 2	10.17	10.90
11	10.91	11.49	9	10.15	10.69
18	10.82	11.50	16	9.92	10.68
25	10.69	11.60	23	9.93	10.51
Apr. 1	11.05	11.57	30	9.74	10.56
8	11.17	11.76	Oct. 7	8.91	9.85
15	11.06	11.73	14	8.86	9.46
22	10.90	11.71	21	8.76	9.22
29	10.73	11.37	28	8.73	9.39
May 6	10.85	11.39	Nov. 4	9.00	9.68
13	10.39	11.13	11	9.43	10.12
20	10.26	10.74	18	9.75	10.38
27	10.48	11.14	25	10.01	10.84
June 3	10.51	11.23	Dec. 2	10.63	11.03
10	10.33	11.19	9	10.74	11.29
17	10.57	11.24	16	10.69	11.18
24	10.63	11.09	23	10.56	11.17
July 1	10.51	11.29	30	10.26	11.20
8	10.50	11.26			

G490. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 53 S., R. 41 E. Records available: 1947-49.

High and low weekly water level, from recorder charts

Jan. 7	3.73	4.25	May 13	3.70	4.07
14	4.05	4.43	20	3.59	4.12
21	3.95	4.42	27	3.82	4.38
28	4.18	4.67	June 3	3.86	4.49
Feb. 4	4.14	4.50	10	3.55	4.30
11	4.30	4.84	17	3.08	...
18	4.40	4.93	24	3.55	4.13
25	4.52	5.06	July 1	3.82	4.48
Mar. 4	4.41	4.79	8	3.93	4.46
11	4.36	4.82	15	4.01	4.48
18	4.17	4.67	22	4.10	4.56
25	2.32	4.45	29	4.13	4.61
Apr. 1	4.00	4.27	Aug. 5	3.97	4.55
8	3.97	4.39	12	4.04	4.50
15	3.74	4.27	19	4.00	4.44
22	3.70	4.17	26	....	4.53
29	3.88	4.24	Sept. 2	3.21	4.26
May 6	3.69	4.40	9	3.41	3.98



G490--Continued.

High and low weekly water level, from recorder charts					
Week ending	High	Low	Week ending	High	Low
Sept. 16	3.56	4.02	Nov. 11	3.23	3.74
23	3.68	4.16	18	3.26	3.79
30	2.39	4.06	25	3.49	4.08
Oct. 7	2.43	3.17	Dec. 2	3.89	4.23
14	2.53	3.27	9	4.10	4.47
21	2.55	3.00	16	4.16	4.48
28	2.54	3.22	23	4.06	4.47
Nov. 4	3.01	3.50	30	....	4.50

G518. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 30, T. 56 S., R. 40 E. Water level affected by tides in Goulds Canal. Records available: 1947-49.

High and low weekly water level, from recorder charts					
Week ending	High	Low	Week ending	High	Low
Aug. 19	3.15	3.67	Oct. 28	1.02	2.93
26	3.42	3.85	Nov. 4	2.11	2.94
Sept. 2	2.45	3.65	11	2.88	3.28
9	3.40	3.93	18	1.53	3.31
16	1.72	3.92	25	3.26	3.65
23	2.49	3.53	Dec. 2	3.63	3.84
30	1.30	3.50	9	3.82	3.99
Oct. 7	1.38	2.72	16	3.84	4.04
14	1.15	2.91	23	3.83	4.03
21	2.19	2.82	30	3.61	4.05

G551. City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 36, T. 54 S., R. 39 E. Records available: 1947-49.

High and low weekly water level, from recorder charts					
Week ending	High	Low	Week ending	High	Low
Jan. 7	2.04	2.19	July 1	2.33	2.79
14	2.19	2.43	8	1.56	2.76
21	2.43	2.60	15	1.43	2.36
28	2.58	2.78	22	1.59	2.44
Feb. 4	2.78	2.96	29	.67	2.14
11	2.96	3.14	Aug. 5	1.52	2.01
18	3.14	3.35	12	1.57	1.92
25	3.35	3.55	19	1.64	2.25
Mar. 4	3.55	3.75	26	1.98	2.37
11	3.75	3.94	Sept. 2	1.83	2.24
18	3.94	4.12	23	....	2.49
25	3.62	4.14	Oct. 7	.51	....
Apr. 1	3.71	4.07	14	.08	1.07
8	4.00	4.23	21	.27	.87
15	1.62	4.17	28	.10	1.11
22	1.64	2.39	Nov. 4	.31	.86
29	2.24	2.96	11	.86	1.23
May 6	1.67	3.14	18	.73	1.32
13	1.80	2.80	25	1.29	1.67
20	2.45	3.02	Dec. 2	1.67	1.97
27	3.02	3.46	9	1.97	2.16
June 3	3.46	3.79	16	2.16	2.34
10	3.65	3.83	23	2.34	2.48
17	1.87	3.81	30	1.24	2.48
24	1.84	2.33			

G553. City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16, T. 55 S., R. 40 E. Records available: 1947-49.

High and low weekly water level, from recorder charts					
Week ending	High	Low	Week ending	High	Low
Jan. 7	6.94	7.19	Feb. 18	8.34	8.55
14	7.19	7.45	25	8.55	8.76
21	7.45	7.65	Mar. 4	8.76	8.94
28	7.65	7.89	11	8.94	9.13
Feb. 4	7.89	8.13	18	9.13	9.29
11	8.13	8.34	25	8.40	9.31

G553--Continued.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Apr. 1	8.40	8.67	Aug. 19	5.90	6.34
8	8.67	8.96	26	6.34	6.61
15	8.69	9.16	Sept. 2	6.40	6.57
22	7.13	8.69	9	6.43	6.83
29	7.13	7.42	16	....	6.86
May 6	6.38	7.56	23	6.43	6.60
13	6.37	6.70	30	5.68	6.75
20	6.47	6.68	Oct. 7	4.93	5.68
27	6.65	7.24	14	4.32	5.05
June 3	7.24	7.74	21	4.32	4.67
10	7.74	8.01	28	....	4.87
17	6.69	7.78	Nov. 4	4.19	4.57
24	6.34	6.69	11	4.57	5.12
July 1	6.34	6.87	18	5.12	5.40
8	6.86	7.18	25	5.40	5.85
15	6.60	6.86	Dec. 2	5.85	6.36
22	6.24	6.86	9	6.36	6.75
29	6.20	6.39	16	6.75	7.13
Aug. 5	6.13	6.24	23	7.13	7.43
12	5.88	6.24	30	7.27	7.47

G578. University of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 19, T. 54 S., R. 41 E., on east side of San Amaro Drive, south of Blue Road, in University of Miami Biology Department garden plots, Coral Gables. Drilled observation well, diameter 8 inches, depth 26 feet. Water level affected by tides in Coral Gables Canal. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
June 17, 1948	11.05	11.22	Apr. 22, 1949	10.97	11.08
24	11.10	11.30	29	11.08	11.34
July 1	11.30	11.45	6	11.34	11.52
8	11.35	11.45	13	11.12	11.39
15	11.25	11.35	20	11.06	11.18
22	11.25	11.40	27	11.18	11.43
29	11.25	11.40	June 3	11.09	11.50
Aug. 5	11.15	11.30	10	10.97	11.18
12	11.15	11.30	17	9.81	11.21
19	11.20	11.40	24	10.36	10.76
26	11.18	11.35	July 1	10.76	11.08
Sept. 2	11.20	11.39	8	10.93	11.23
9	10.81	11.20	15	11.22	11.28
16	10.78	11.09	22	11.26	11.58
23	5.99	10.78	29	11.35	11.57
30	7.54	....	Aug. 5	11.25	11.51
Oct. 7	7.22	....	12	11.36	11.46
Nov. 11	10.31	10.83	19	11.27	11.41
Dec. 2	11.01	11.16	26	11.18	11.46
9	11.10	....	Sept. 2	11.02	11.40
16	....	11.44	9	10.94	11.17
23	11.43	11.44	16	10.91	11.03
30	11.41	11.43	23	10.99	11.18
Jan. 14, 1949	....	11.84	30	10.63	11.03
21	11.55	11.76	Oct. 7	10.15	10.63
28	11.76	11.94	14	9.91	10.24
Feb. 4	11.69	11.85	21	9.91	10.02
11	11.72	12.03	28	9.96	10.49
18	11.77	11.98	Nov. 4	10.49	10.80
25	11.79	12.08	11	10.76	11.03
Mar. 4	11.68	11.83	18	10.93	11.14
11	11.58	11.80	25	11.11	11.41
18	11.53	11.74	Dec. 2	11.41	11.61
25	11.23	11.86	9	11.57	11.72
Apr. 1	11.61	11.69	16	11.58	11.71
8	11.69	11.92	23	11.48	11.60
15	11.04	11.93	30	11.22	11.67

S1A. City of Miami. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1926-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	8.46	Apr. 28	7.38	July 29	7.71	Oct. 31	5.84
Feb. 28	8.87	May 31	8.54	Aug. 31	7.12	Nov. 30	7.12
Mar. 30	7.40	June 30	7.13	Sept. 30	5.03	Dec. 29	6.22

S2A. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1942-49.

Jan. 28	9.20	Apr. 30	8.52	July 29	8.30	Oct. 31	6.43
Feb. 28	10.09	May 31	9.30	Aug. 31	7.78	Nov. 30	7.67
Mar. 30	8.20	June 30	8.00	Sept. 30	6.11	Dec. 29	7.29

S3A. City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1942-49.

Jan. 28	10.12	Apr. 28	9.67	July 29	8.72	Oct. 31	6.97
Feb. 28	11.25	May 31	10.27	Aug. 31	8.68	Nov. 30	8.80
Mar. 30	9.08	June 30	8.59	Sept. 30	6.58	Dec. 29	7.70

S4A. City of Miami. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1942-49.

Jan. 28	8.54	Apr. 28	8.07	July 29	7.85	Oct. 31	5.90
Feb. 28	9.64	May 31	8.55	Aug. 31	7.25	Nov. 30	7.28
Mar. 30	7.61	June 30	7.68	Sept. 30	5.76	Dec. 29	6.73

S5A. City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1942-49.

Jan. 28	9.43	Apr. 28	8.84	July 29	8.91	Oct. 31	6.29
Feb. 28	10.68	May 31	9.63	Aug. 31	7.80	Nov. 30	7.91
Mar. 30	8.48	June 30	8.05	Sept. 30	6.16	Dec. 29	7.80

S6A. City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1942-49.

Jan. 28	9.78	Apr. 28	8.80	July 29	9.34	Oct. 31	6.38
Feb. 28	11.34	May 31	10.10	Aug. 31	7.69	Nov. 30	7.77
Mar. 30	8.83	June 30	8.55	Sept. 30	6.73	Dec. 29	7.84

S7A. City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1942-49.

Jan. 28	8.96	Apr. 28	8.76	July 29	8.19	Oct. 31	6.24
Feb. 28	10.82	May 31	9.50	Aug. 31	7.81	Nov. 30	7.89
Mar. 30	8.49	June 30	7.97	Sept. 30	5.94	Dec. 29	8.04

S8A. City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 53 S., R. 40 E. Records available: 1942-49.

Jan. 28	8.10	Apr. 28	7.46	July 29	7.52	Oct. 31	5.11
Feb. 28	9.37	May 31	8.10	Aug. 31	6.23	Nov. 30	6.49
Mar. 30	7.22	June 30	6.87	Sept. 30	5.18	Dec. 29	6.49

S14A. City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1942-49.

Jan. 28	6.98	Apr. 28	6.21	July 29	7.10	Oct. 31	4.62
Feb. 28	7.88	May 31	6.58	Aug. 31	5.74	Nov. 30	5.86
Mar. 30	6.35	June 30	6.84	Sept. 30	4.82	Dec. 29	5.49

S15A. City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1942-49.

Jan. 28	5.71	Apr. 28	5.05	July 29	5.69	Oct. 31	3.21
Feb. 28	7.24	May 31	5.72	Aug. 31	4.57	Nov. 30	4.45
Mar. 30	5.61	June 30	4.99	Sept. 30	3.94	Dec. 29	5.16

S16A. City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1942-49.

Jan. 28	6.14	Apr. 28	5.82	July 29	6.04	Oct. 31	3.41
Feb. 28	7.63	May 31	6.07	Aug. 31	4.66	Nov. 30	5.20
Mar. 30	6.19	June 30	5.91	Sept. 30	3.52	Dec. 29	4.78

S17A. City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	6.10	Apr. 28	5.60	July 29	6.10	Oct. 31	3.30
Feb. 28	7.52	May 31	5.88	Aug. 31	4.30	Nov. 30	5.25
Mar. 30	5.83	June 30	5.85	Sept. 30	3.68	Dec. 29	4.80

S18. Model Dairy. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 52 S., R. 41 E. Records available: 1939-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	6.98	7.19	July 8	7.34	7.46
14	7.19	7.39	15	7.35	7.49
21	7.39	7.42	22	7.26	7.49
28	7.39	7.52	29	7.32	7.55
Feb. 4	7.52	7.58	Aug. 5	7.47	7.54
11	7.58	7.73	12	7.31	7.52
18	7.73	7.92	19	7.35	7.57
25	7.92	8.08	26	7.44	7.60
Mar. 4	8.08	8.19	Sept. 2	6.80	7.44
11	8.19	8.27	9	6.98	7.23
18	8.27	8.36	16	6.67	7.26
25	7.96	8.36	23	6.79	7.19
Apr. 1	8.01	8.20	30	5.22	7.22
8	7.64	8.20	Oct. 7	5.17	5.68
15	7.64	7.90	14	5.36	5.88
22	7.68	7.85	21	5.25	5.85
29	7.71	7.91	28	5.85	6.14
May 6	7.72	8.00	Nov. 4	6.14	6.47
13	7.36	7.72	11	6.47	6.73
20	6.69	7.36	18	6.60	6.77
27	7.08	7.50	25	6.73	7.00
June 3	7.42	7.63	Dec. 2	7.00	7.26
10	7.39	7.47	9	7.26	7.48
17	6.70	7.47	16	7.48	7.61
24	6.67	6.86	23	7.61	7.66
July 1	6.86	7.34	30	6.08	7.66

S18A. City of Miami. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.85	Apr. 28	5.61	July 29	5.75	Oct. 31	3.38
Feb. 28	7.21	May 31	5.98	Aug. 31	4.71	Nov. 30	4.82
Mar. 30	5.92	June 30	5.80	Sept. 30	3.19	Dec. 29	5.34

S19. City of Miami. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 25, T. 53 S., R. 40 E. Records available: 1939-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	5.54	5.86	Apr. 15	6.19	6.51
14	5.86	6.26	22	5.87	6.26
21	6.13	6.38	29	6.16	6.52
28	6.38	6.77	May 6	6.13	6.71
Feb. 4	6.70	6.94	13	6.13	6.51
11	6.94	7.20	20	6.00	6.46
18	6.20	7.50	27	6.08	6.75
25	7.50	7.80	June 3	6.75	7.01
Mar. 4	7.80	7.91	10	6.40	6.80
11	7.91	8.03	17	4.94	6.40
18	7.49	8.03	24	5.21	5.75
25	5.81	7.49	July 1	5.75	6.33
Apr. 1	6.04	6.58	8	6.33	6.68
8	6.19	6.84	15	6.48	6.73

S19--Continued.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
July 22	6.54	6.69	Oct. 14	3.89	4.64
29	6.57	6.68	21	4.12	4.57
Aug. 5	6.58	6.69	28	4.28	4.56
12	6.48	6.69	Nov. 4	4.44	4.90
19	6.48	6.63	11	4.90	5.15
26	6.02	6.71	18	5.15	5.26
Sept. 2	5.40	6.02	25	5.26	5.51
9	5.39	5.99	Dec. 2	5.51	6.02
16	5.99	6.14	9	5.96	6.33
23	6.08	6.24	16	6.26	6.48
30	4.28	6.23	23	6.43	6.51
Oct. 7	3.96	4.50	30	5.55	6.45

S19A. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.28	Apr. 28	5.08	July 29	5.56	Oct. 31	3.31
Feb. 28	6.58	May 31	5.69	Aug. 31	4.75	Nov. 30	4.62
Mar. 30	5.69	June 30	5.65	Sept. 30	2.92	Dec. 29	4.56

S20A. City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	7.26	Apr. 28	6.52	July 29	6.89	Oct. 31	4.45
Feb. 28	8.93	May 31	7.18	Aug. 31	5.45	Nov. 30	6.00
Mar. 30	7.13	June 30	6.73	Sept. 30	4.59	Dec. 29	6.20

S21A. City of Miami. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.94	Apr. 28	5.65	July 29	5.82	Oct. 31	3.94
Feb. 28	7.34	May 31	6.40	Aug. 31	5.06	Nov. 30	5.50
Mar. 30	6.57	June 30	5.65	Sept. 30	3.61	Dec. 29	5.68

S63. Graham's Dairy. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 30, T. 52 S., R. 40 E. Records available: 1940-45, 1949. Feb. 8, 2.65.

S68. City of Miami. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Records available: 1940-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	5.47	6.06	July 8	6.17	6.66
14	6.02	6.47	15	6.47	6.78
21	6.20	6.70	22	6.04	6.47
28	6.70	7.14	29	5.94	6.59
Feb. 4	7.14	7.26	Aug. 5	6.48	6.63
11	7.25	7.65	12	6.19	6.48
18	7.58	7.85	19	6.41	6.60
25	7.75	8.11	26	5.97	6.60
Mar. 4	7.93	8.21	Sept. 2	5.20	6.12
11	8.03	8.29	9	5.17	5.93
18	7.45	8.31	16	5.74	6.03
25	5.87	7.53	23	5.83	6.17
Apr. 1	5.93	6.60	30	4.08	6.19
8	5.97	6.94	Oct. 7	3.77	4.28
15	5.97	6.35	14	3.78	4.45
22	5.81	6.31	21	3.86	4.23
29	6.27	6.60	28	3.81	4.37
May 6	6.03	6.67	Nov. 4	4.05	4.92
13	6.05	6.35	11	4.85	5.15
20	5.74	6.20	18	4.96	5.39
27	6.19	6.78	25	5.27	5.56
June 3	6.58	7.13	Dec. 2	5.56	6.07
10	6.20	6.58	9	5.61	6.47
17	4.89	6.44	16	6.01	6.61
24	5.20	5.78	23	5.97	6.40
July 1	5.75	6.33	30	5.40	6.59

S84. Coca Cola Bottling Co.  $SE\frac{1}{4}NW\frac{1}{4}$  sec. 25, T. 53 S., R. 41 E. Records available: 1940-49. Jan. 13, 15.20; Feb. 18, 15.54.

S182. International Fruit Co.  $NW\frac{1}{4}NW\frac{1}{4}$  sec. 5, T. 56 S., R. 40 E. Records available: 1940-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	6.73	6.97	July 8	6.55	6.86
14	6.97	7.24	15	6.47	6.86
21	7.24	7.47	22	5.70	6.49
28	7.47	7.75	29	5.60	5.77
Feb. 4	7.75	7.88	Aug. 5	5.23	5.61
11	7.88	8.07	12	5.45	5.59
18	8.07	8.28	19	5.51	5.89
25	8.28	8.47	26	5.89	6.22
Mar. 4	8.47	8.64	Sept. 2	5.80	6.21
11	8.64	8.82	9	5.94	6.46
18	8.82	8.97	16	5.92	6.49
25	8.38	9.00	23	5.34	6.09
Apr. 1	8.38	8.61	30	4.36	5.79
8	8.61	8.81	Oct. 7	3.21	4.37
15	8.81	9.01	14	3.42	4.15
22	8.16	9.03	21	3.50	4.14
29	7.92	8.16	28	3.26	4.40
May 6	6.37	7.92	Nov. 4	3.60	4.21
13	6.34	6.59	11	4.21	4.62
20	6.19	6.59	18	4.54	4.91
27	6.32	6.96	25	4.91	5.44
June 3	6.96	7.44	Dec. 2	5.44	5.90
10	7.44	7.75	9	5.90	6.29
17	6.99	7.75	16	6.29	6.66
24	6.18	6.99	23	6.66	6.92
July 1	6.18	6.55	30	6.92	6.94

S183. E. L. Cotton.  $NW\frac{1}{4}NW\frac{1}{4}$  sec. 4, T. 55 S., R. 40 E. Records available: 1940-43, 1945, 1947. Destroyed, measurement discontinued.

S185. Judge Price.  $SW\frac{1}{4}SW\frac{1}{4}$  sec. 1, T. 56 S., R. 39 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 15, 7.99.

S186. Mr. Wellbourn.  $SE\frac{1}{4}SE\frac{1}{4}$  sec. 15, T. 56 S., R. 38 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 8, 5.39.

S187. E. Enquist.  $SE\frac{1}{4}SE\frac{1}{4}$  sec. 34, T. 56 S., R. 38 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 8, 6.60.

S188. E. C. Byars.  $SE\frac{1}{4}NE\frac{1}{4}$  sec. 2, T. 57 S., R. 38 E. Records available: 1940-43, 1945, 1947, 1949. Feb. 8, 8.68.

S191. A. H. Singleton.  $SE\frac{1}{4}SW\frac{1}{4}$  sec. 19, T. 56 S., R. 39 E. Records available: 1940-45, 1947, 1949. Feb. 8, 5.73.

S196. University of Florida Experiment Station, Homestead.  $SW\frac{1}{4}SE\frac{1}{4}$  sec. 35, T. 56 S., R. 38 E. Records available: 1932-49.

Daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.30	8.05	8.92	9.57	8.92	8.24	5.83	5.33	6.30	4.72	4.27	6.13
2	7.33	8.08	8.94	9.57	8.95	8.27	5.92	5.27	6.09	4.80	4.41	6.22
3	7.36	8.12	8.98	9.60	8.96	8.20	5.98	5.30	6.05	4.73	4.52	6.28
4	7.38	8.13	9.00	9.63	8.92	8.10	5.97	5.44	6.10	4.82	4.65	6.33
5	7.41	8.16	9.06	9.66	8.72	8.02	5.83	5.50	6.20	4.86	4.78	6.40
6	7.44	8.18	9.07	9.70	8.44	7.97	5.83	5.48	6.27	4.95	4.92	6.47
7	7.46	8.22	9.10	9.67	8.24	7.97	5.84	5.42	6.34	5.02	5.03	6.51
8	7.49	8.23	9.13	9.63	8.13	7.98	5.94	5.44	6.42	5.05	5.12	6.55
9	7.50	8.26	9.16	9.63	8.08	7.90	5.98	5.47	6.49	5.12	5.20	6.61
10	7.54	8.29	9.18	9.61	8.07	7.83	5.90	5.41	6.55	5.19	5.27	6.67

S196--Continued.

Daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	7.57	8.32	9.22	9.63	8.01	7.64	5.70	5.27	6.41	5.24	5.35	6.72
12	7.60	8.36	9.26	9.67	7.93	7.10	5.72	5.30	6.36	3.50	5.43	6.76
13	7.62	8.39	9.28	9.68	7.87	5.80	5.83	5.38	6.39	3.54	5.52	6.82
14	7.66	8.43	9.31	9.70	7.81	5.32	5.95	5.58	6.38	4.85	5.11	6.86
15	7.67	8.46	9.34	9.72	7.74	5.33	6.05	5.65	6.39	4.05	4.80	6.91
16	7.70	8.51	9.37	9.73	7.67	5.40	6.17	5.73	6.42	4.22	4.85	6.97
17	7.72	8.53	9.40	9.72	7.65	4.18	6.24	5.83	6.48	4.38	4.95	7.00
18	7.76	8.58	9.41	9.70	7.63	4.32	6.20	5.96	6.52	4.53	5.06	7.04
19	7.80	8.60	9.45	9.57	7.63	4.50	5.92	6.00	6.46	4.67	5.18	7.08
20	7.80	8.65	9.46	9.25	7.66	4.66	5.62	6.07	6.40	4.80	5.28	7.12
21	7.83	8.67	9.42	9.00	7.68	4.82	5.54	6.07	6.40	4.93	5.37	7.16
22	7.83	8.72	9.37	8.87	7.73	4.98	5.57	6.10	6.42	5.04	5.48	7.18
23	7.85	8.73	9.34	8.82	7.77	5.05	5.48	6.13	6.47	5.17	5.54	7.20
24	7.87	8.76	9.35	8.78	7.81	5.04	5.47	6.18	6.52	5.27	5.65	7.24
25	7.88	8.80	9.36	8.77	7.87	5.28	5.52	6.22	6.58	2.15	5.70	7.25
26	7.91	8.83	9.40	8.78	7.92	5.40	5.42	6.28	6.61	3.10	5.80	7.25
27	7.93	8.86	9.42	8.80	8.00	5.50	5.43	6.30	6.60	3.38	5.88	7.23
28	7.95	8.89	9.46	8.82	8.05	5.62	5.47	6.26	6.60	3.62	5.95	7.22
29	7.99		9.48	8.86	8.12	5.75	5.53	5.97	5.45	3.83	6.00	7.21
30	8.02		9.51	8.90	8.18	5.85	5.62	5.97	4.82	4.00	6.07	7.21
31	8.05		9.53		8.22		5.44	5.98		4.13		7.24

S290. J. C. Kersey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 3, T. 52 S., R. 41 E. Records available: 1940-45, 1949. Feb. 15, 16.99.

S539. U. S. Dept. of Agriculture. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 24, T. 55 S., R. 40 E. Records available: 1945-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	16.28	16.71	16.35	16.80	16.44	16.93	16.53	16.97	16.31	16.71	16.07	16.49
2	16.28	16.72	16.42	16.85	16.41	16.88	16.52	16.96	16.31	16.80	15.95	16.39
3	16.26	16.72	16.42	16.85	16.45	16.88	16.51	17.01	16.36	16.76	15.87	16.34
4	16.41	16.76	16.45	16.87	16.39	16.87	16.61	17.04	16.39	16.69	15.81	16.33
5	16.49	16.82	16.49	16.87	16.43	16.95	16.62	17.09	16.15	16.62	15.67	16.23
6	16.58	16.87	16.52	16.89	16.45	16.91	16.75	17.05	16.27	16.63	15.74	16.29
7	16.65	16.90	16.63	16.97	16.57	16.95	16.76	17.06	16.25	16.63	15.78	16.35
8	16.56	16.90	16.76	17.05	16.50	16.95	16.77	17.12	16.10	16.56	14.90	16.45
9	16.62	16.89	16.75	17.07	16.45	16.92	16.68	17.16	16.01	16.53	16.06	16.57
10	16.70	16.93	16.73	17.10	16.33	16.85	16.59	17.10	15.91	16.48	16.19	16.63
11	16.65	16.98	16.59	17.15	16.25	16.79	16.45	17.00	15.88	16.44	16.10	16.60
12	16.60	16.98	16.49	16.99	16.28	16.75	16.38	16.93	15.82	16.45	16.00	16.53
13	16.49	16.99	16.46	16.95	16.23	16.79	16.40	16.95	15.83	16.38	15.87	16.41
14	16.40	16.94	16.43	16.95	16.16	16.76	16.40	16.93	15.84	16.42	15.87	16.34
15	16.25	16.87	16.37	16.89	16.18	16.79	16.42	16.91	15.73	16.32	15.93	16.33
16	16.16	16.74	16.46	16.99	16.25	16.84	16.43	16.92	15.75	16.26	15.98	16.34
17	16.16	16.68	16.61	17.09	16.31	16.92	16.55	16.96	15.77	16.20	16.03	16.34
18	16.13	16.67	16.60	17.07	16.36	16.89	16.46	16.87	15.71	16.20	15.98	16.34
19	16.26	16.80	16.57	17.03	16.47	16.99	16.32	16.72	15.83	16.28	16.03	16.34
20	16.43	16.85	16.71	17.15	16.22	16.98	16.33	16.66	15.96	16.37	15.99	16.31
21	16.36	16.85	16.90	17.17	16.10	16.53	16.25	16.64	16.03	16.40	16.04	16.36
22	16.45	16.91	16.77	17.19	16.29	16.74	16.23	16.65	15.96	16.36	16.01	16.36
23	16.59	16.92	16.69	17.11	16.47	16.83	16.23	16.64	16.10	16.48	16.00	16.35
24	16.61	16.95	16.50	17.06	16.65	16.92	16.15	16.63	16.14	16.54	16.10	16.48
25	16.68	17.01	16.43	16.91	16.56	16.95	16.12	16.60	16.21	16.58	16.22	16.55
26	16.64	17.05	16.37	16.87	16.55	16.95	16.10	16.60	16.12	16.63	16.31	16.63
27	16.68	17.05	16.31	16.80	16.54	16.97	16.20	16.70	16.07	16.55	16.26	16.66
28	.....	17.04	16.44	16.90	16.53	16.95	16.28	16.79	16.10	16.61	16.24	16.63
29	.....	.....			16.44	16.94	16.29	16.75	16.17	16.64	16.13	16.55
30	.....	.....			16.42	16.89	16.31	16.77	16.19	16.64	15.97	16.44
31	.....	.....			16.42	16.92			16.15	16.60		

S539--Continued.

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	15.85	16.35	15.90	16.43	.....	.....	15.59	15.94	15.43	15.84	16.30	16.68
2	15.88	16.38	16.03	16.48	15.92	.....	15.37	15.85	15.49	15.89	16.28	16.65
3	15.94	16.41	16.23	16.59	15.71	16.21	15.26	15.69	15.55	15.92	16.44	16.74
4	15.97	16.44	16.31	16.65	15.66	16.15	15.03	15.66	15.47	15.94	16.31	16.73
5	15.98	16.47	16.22	16.63	15.64	16.15	15.07	15.55	15.51	15.93	16.47	16.77
6	15.99	16.49	16.11	16.54	15.71	16.20	15.16	15.61	15.56	16.00	16.41	16.81
7	16.11	16.59	16.02	16.42	15.78	16.24	15.15	15.63	15.52	16.01	16.38	16.79
8	16.19	16.64	16.05	16.43	15.80	16.27	15.17	15.65	15.54	16.01	16.43	16.81
9	16.11	16.60	16.01	16.41	15.80	16.37	15.24	15.68	15.57	16.01	16.43	16.81
10	16.07	16.55	16.05	16.47	15.78	16.26	15.29	15.72	15.73	16.11	16.31	16.74
11	16.05	16.51	16.10	16.52	15.46	16.17	15.29	15.67	15.82	16.21	16.22	16.63
12	16.03	16.51	16.10	16.49	15.48	15.94	15.04	15.66	15.73	16.15	16.29	16.67
13	16.04	16.48	16.05	16.41	15.52	15.96	15.04	15.47	15.69	16.09	16.31	16.71
14	16.06	16.51	16.05	16.39	15.47	15.85	15.15	15.53	15.65	16.07	16.35	16.74
15	16.10	16.53	16.05	16.45	15.63	15.97	15.25	15.65	15.63	16.07	16.30	16.76
16	16.16	16.56	16.23	16.51	15.77	16.07	15.05	15.52	15.69	16.15	16.23	16.75
17	16.18	16.60	16.19	16.49	15.87	16.19	15.00	15.47	15.83	16.25	16.11	16.66
18	16.26	16.57	16.27	16.56	15.85	16.20	14.93	15.45	15.80	16.30	16.11	16.63
19	16.30	16.61	16.22	16.58	15.74	16.16	14.91	15.48	15.74	16.32	16.14	16.71
20	16.33	16.61	16.21	16.55	15.71	16.19	14.79	15.48	15.75	16.29	16.11	16.65
21	16.36	16.67	16.25	16.61	15.59	16.13	14.72	15.42	15.85	16.34	16.07	16.59
22	16.39	16.74	16.20	16.61	15.53	16.07	14.66	15.41	15.97	16.41	16.15	16.64
23	16.33	16.71	16.05	16.56	15.52	15.09	14.73	15.44	16.04	16.47	16.25	16.75
24	16.28	16.71	15.95	16.44	15.48	16.07	14.90	15.55	16.12	16.51	16.30	16.81
25	16.09	16.68	15.78	16.36	15.43	16.02	14.83	15.42	16.13	16.57	15.98	16.46
26	16.05	16.54	.....	.....	15.42	16.01	14.92	15.53	16.39	16.64	15.79	16.25
27	16.08	16.60	.....	.....	15.61	16.10	15.24	15.65	16.30	16.65	15.91	16.36
28	16.07	16.56	.....	.....	15.68	16.15	15.35	15.69	16.39	16.69	16.06	16.43
29	16.01	16.50	.....	.....	15.67	16.17	15.36	15.70	16.41	16.71	16.06	16.47
30	15.81	16.46	.....	.....	15.48	15.88	15.36	15.72	16.35	16.69	16.01	16.49
31	15.84	16.37	.....	.....	.....	.....	15.37	15.72	.....	.....	15.68	16.31

Duval County

12. Jacksonville Motor Transit Co. About 200 feet east of Riverside Ave., about 75 feet south of McCoy St., Jacksonville. Records available: 1938, 1940-42, 1944, 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+29.2	Apr. 5	+23.8	June 27	+24.3	Oct. 10	+27.0
Feb. 23	+27.4	May 16	+23.8	Aug. 15	+27.2	Dec. 7	+29.8

18. C. J. Price. In Jacksonville, about 400 feet east of Riverside Ave., about 50 feet north of Lomax St. Records available: 1938, 1940-41, 1946-49.

Jan. 5	+40.8	Apr. 5	+39.2	June 27	+36.7	Oct. 10	+39.3
Feb. 23	+38.7	May 16	+35.1	Aug. 15	+39.3	Dec. 7	+40.4

89. C. F. Tresca. At nursery, north of Atlantic Boulevard. SE $\frac{1}{4}$  sec. 18, T. 2 S., R. 28 E. Records available: 1939-41, 1946-49. Jan. 5, +14.0; Feb. 23, +13.6; Apr. 5, +12.3; May 18, +12.4; Aug. 16, +17.3; Oct. 12, +14.9; Dec. 7, +13.0.

102. V. A. Stevens. SW $\frac{1}{4}$  sec. 24, T. 2 S., R. 27 E., about 240 feet north of Atlantic Boulevard, in rear of owner's residence. Records available: 1930-31, 1934, 1939-42, 1946-49.

Jan. 5	1.30	Apr. 5	3.35	June 30	+0.08	Oct. 12	0.69
Feb. 23	1.24	May 18	3.06	Aug. 16	+ .85	Dec. 7	3.72

115. City of Jacksonville. In Ortega, 5 miles southwest of Jacksonville, on east side of pumphouse, east of intersection of Baltic St. and Oxford Ave. Records available: 1936-31, 1938, 1940-42, 1944-49.

Jan. 5	+35.0	Apr. 5	+34.4	June 29	+29.9	Oct. 10	+33.5
Feb. 23	+33.6	May 19	+29.5	Aug. 16	+35.0	Dec. 5	+33.5



118. City of Jacksonville. In Jacksonville, at southwest side of pumphouse, on west corner of intersection of Post and Dancy Sts. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+31.5	Apr. 4	+30.6	June 27	+29.6	Oct. 10	+31.6
Feb. 23	+31.3	May 16	+29.3	Aug. 16	+31.8	Dec. 5	+30.8

122. City of Jacksonville. In Jacksonville, about 20 feet north of 63rd St., between Russell and Eastland Sts. Records available: 1930, 1938, 1940-42, 1944-49. Jan. 4, +41.7; Feb. 22, +41.1; Apr. 6, +40.9; June 28, +39.6, Aug. 17, +42.1, Oct. 11, +41.5.

123. City of Jacksonville. At Woodstock Park, Jacksonville, on west side of Huron St., about 150 feet north of Beaver St. Records available: 1930-31, 1938-49.

Jan. 3	+33.5	Apr. 4	+32.7	June 27	+31.9	Oct. 10	+33.5
Feb. 21	+33.4	May 16	+31.5	Aug. 15	+33.9	Dec. 5	+32.7

129. Jim Merrill. In Ortega, on east side of Ortega Blvd., between First and Palmetto Sts., 5.2 miles southwest of Jacksonville. Records available: 1940-42, 1944-49. Jan. 5, +39.6; Feb. 23, +38.4; Apr. 5, +38.2; June 29, +35.0, Aug. 16, +39.3, Oct. 10, +39.6, Dec. 7, +39.1.

131. G. C. Cole. SW $\frac{1}{4}$  sec. 10, T. 9 S., R. 26 E., on south side of owner's residence, east side of Lem Turner Road, 0.7 mile north of Trout River, 7.0 miles north of Jacksonville. Records available: 1934, 1940-42, 1944-49. Jan. 4, +33.5; Feb. 22, +32.9; Apr. 6, +32.7; May 17, +33.2; Aug. 17, +36.0; Oct. 11, +35.8.

145. Duval County School Board. In rear of Oceanway School, 0.5 mile north of Broward, and 10 miles north of Jacksonville. Records available: 1940-42, 1944-49.

Jan. 4	+21.5	Apr. 6	+21.1	June 28	+19.2	Oct. 11	+20.7
Feb. 22	+20.9	May 17	+19.1	Aug. 17	+21.1	Dec. 6	+20.1

147. V. C. Johnson. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 32, T. 1 N., R. 26 E. Records available: 1940-42, 1944-49. Jan. 4, +30.6; Feb. 22, +29.9; Apr. 6, +29.7; May 17, +26.5; Aug. 17, +25.7; Oct. 11, +25.6.

149. Mrs. W. M. Bostwick. At north side of mouth of Drummond Creek, 1.2 miles southwest of Eastport, 6 miles northeast of Jacksonville. Records available: 1940-41, 1944-49.

Jan. 4	+26.4	Apr. 6	+25.6	June 28	+23.7	Oct. 11	+26.1
Feb. 22	+26.6	May 17	+23.3	Aug. 17	+25.3	Dec. 6	+25.5

154. J. M. Shield. SW $\frac{1}{4}$  sec. 22, T. 3 S., R. 27 E., between Florida East Coast Railway and U. S. Highway 1, 1.2 miles north of Sunbeam. Records available: 1940-42, 1944, 1946-49.

Jan. 6	+28.3	Apr. 7	+28.6	June 30	+24.4	Oct. 14	+26.6
Feb. 24	+28.1	May 18	+28.1	Aug. 18	+26.7	Dec. 7	+26.1

160. City of Neptune Beach. In Neptune Beach, about 400 feet from Atlantic Ocean, on southeast corner of intersection of First St., and Florida Ave. Records available: 1934, 1939-42, 1944-49.

Jan. 5	+38.3	Apr. 5	+36.5	June 30	+34.2	Oct. 12	+36.5
Feb. 23	+38.1	May 18	+36.3	Aug. 16	+36.9	Dec. 7	+36.9

164. Ribault Club. In pumphouse, at Ribault Club, on Fort George Island. Records available: 1930-31, 1940-41, 1944-49. Jan. 4, +39.4; Feb. 22, +38.5; Apr. 6, +38.3; May 17, +37.5; June 28, +37.2; Aug. 17, +38.3; Oct. 11, +38.7.

206. John Harrell. 1 mile west of Blanding Rd., and 0.2 mile north of 103d St., in field, in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 3 S., R. 25 E. Records available: 1941-42, 1948-49.

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High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	2.74	2.85	....	....	1.72	1.81	2.42	2.50	2.82	2.89	3.43	3.48
2	3.75	2.83	....	....	1.74	1.83	2.40	2.51	2.80	2.86	3.42	3.46
3	2.78	2.82	....	....	1.79	1.85	2.39	2.47	2.79	2.87	3.40	3.45
4	2.82	2.83	....	....	1.77	1.84	2.42	2.58	2.85	2.90	3.39	3.45
5	....	....	....	....	1.69	1.77	2.25	2.46	2.81	2.85	3.25	3.38
6	2.73	2.80	....	....	1.62	1.69	2.33	2.52	2.71	2.79	3.23	3.34
7	2.76	2.82	....	....	1.59	1.85	2.42	2.53	2.63	2.71	3.30	3.45
8	2.80	2.80	....	....	1.75	1.85	2.33	2.45	2.65	2.73	3.43	3.60
9	2.87	2.95	....	....	1.64	1.78	2.37	2.56	2.68	2.82	3.55	3.69
10	2.84	2.93	....	....	1.55	1.77	2.50	2.63	2.69	2.83	3.58	3.73
11	2.79	2.87	....	....	1.75	1.91	2.41	2.56	2.72	2.86	3.52	3.65
12	2.66	2.84	....	....	1.83	1.96	2.23	2.47	2.79	3.07	3.45	3.57
13	2.70	2.81	....	....	1.85	1.99	2.22	2.43	3.02	3.16	3.44	3.50
14	2.70	2.84	....	....	1.79	1.99	2.34	2.46	3.10	3.18	3.43	3.51
15	2.80	2.89	....	....	1.84	2.04	2.37	2.48	3.08	3.16	3.38	3.42
16	2.81	2.90	....	....	2.02	2.22	2.40	2.55	3.09	3.15	3.35	3.38
17	2.81	2.88	....	....	2.00	2.14	2.56	2.62	3.14	3.25	3.40	3.52
18	2.84	2.88	....	....	1.99	2.04	2.54	2.57	3.22	3.29	3.52	3.60
19	2.87	2.91	....	....	2.04	2.27	2.55	2.70	3.25	3.29	3.58	3.65
20	2.91	3.04	....	....	2.27	2.30	2.68	2.82	3.18	3.27	3.60	2.67
21	3.01	3.04	....	....	1.69	2.28	2.75	2.82	3.20	3.34	3.58	3.66
22	3.01	3.04	....	....	1.69	2.03	2.69	2.78	3.33	3.42	3.48	3.60
23	....	....	....	....	2.01	3.08	2.64	2.77	3.41	3.51	3.48	3.60
24	....	....	1.70	1.81	2.13	3.30	2.59	2.73	3.40	3.53	3.52	3.64
25	....	....	1.60	1.78	2.27	3.41	2.73	2.92	3.41	3.53	3.59	3.73
26	....	....	1.67	1.77	2.33	3.44	2.83	2.99	3.50	3.62	3.59	3.75
27	....	....	1.52	1.73	2.29	3.46	2.75	2.91	3.60	3.71	3.53	3.63
28	....	....	1.58	1.71	2.31	3.44	2.75	2.85	3.68	3.77	3.47	3.60
29	....	....	....	....	2.43	3.63	2.80	2.90	3.67	3.78	3.47	3.52
30	....	....	....	....	2.51	3.64	2.83	2.92	3.60	3.70	3.46	3.49
31	....	....	....	....	2.44	3.58	....	....	3.46	3.61	....	....

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	3.47	3.55	3.50	3.56	2.89	2.97	2.12	2.21	2.06	2.30	2.47	2.60
2	3.54	3.56	3.55	3.64	2.93	3.02	2.08	2.17	2.19	2.31	2.52	2.69
3	3.48	3.56	3.62	3.74	2.89	3.01	2.03	2.13	2.12	2.31	2.63	2.74
4	3.41	3.51	3.68	3.79	2.82	2.94	1.97	2.08	2.19	2.31	2.58	2.72
5	3.37	3.46	3.65	3.77	2.73	2.84	1.90	2.01	2.22	2.38	2.57	2.66
6	3.39	3.49	3.62	3.77	2.66	2.77	1.92	2.04	2.32	2.40	2.65	2.67
7	3.41	3.53	3.61	3.74	2.60	2.70	1.97	2.04	2.26	2.40	....	....
8	3.46	3.60	3.56	3.68	2.54	2.67	2.03	2.10	2.26	2.37	2.49	2.62
9	3.47	3.60	3.58	3.70	2.56	2.65	1.99	2.10	2.24	2.31	2.62	2.67
10	3.41	3.53	3.62	3.76	2.61	2.66	1.96	2.03	2.22	2.29	2.63	2.69
11	3.39	3.47	3.61	3.74	2.59	2.66	1.94	2.03	2.21	2.28	2.69	2.69
12	3.40	3.47	3.53	3.65	2.47	2.63	....	....	2.21	2.28	2.66	2.72
13	3.43	3.48	3.48	3.55	2.36	2.47	1.93	1.98	2.17	2.25	2.61	2.70
14	3.49	3.50	3.47	3.52	2.39	2.47	1.95	2.01	1.94	2.18	2.67	2.68
15	3.50	3.58	3.48	3.53	2.38	2.47	1.89	2.00	2.02	2.16	2.66	2.71
16	3.58	3.63	3.48	3.57	2.35	2.47	1.93	2.02	2.13	2.28	2.65	2.83
17	3.57	3.62	3.47	3.57	2.39	2.51	1.99	2.11	2.17	2.34	2.72	2.81
18	3.55	3.62	3.39	3.51	2.36	2.51	2.06	2.19	2.24	2.42	2.62	2.78
19	3.47	3.57	3.39	3.47	2.27	2.44	2.04	2.20	2.30	2.42	2.58	2.72
20	3.45	3.54	3.44	3.55	2.23	2.36	2.08	2.21	2.22	2.40	2.63	2.70
21	3.47	3.55	3.47	3.59	2.26	2.38	2.12	2.27	2.15	2.43	2.68	2.72
22	3.49	3.60	3.43	3.56	2.19	2.34	2.17	2.27	2.43	2.52	2.65	2.67
23	3.52	3.63	3.35	3.50	2.13	2.26	2.17	2.29	2.39	2.52	2.60	2.84
24	3.48	3.62	3.37	3.47	2.18	2.26	2.16	2.27	2.23	2.45	2.85	2.90
25	3.44	3.56	3.38	3.49	2.11	2.27	2.23	2.27	2.10	2.31	2.72	2.88
26	3.45	3.56	3.26	3.45	2.03	2.14	2.25	2.33	2.31	2.42	2.64	2.72
27	3.50	3.60	2.87	3.28	1.95	2.05	2.27	2.37	2.50	2.41	2.57	2.65
28	3.53	3.60	2.93	3.01	1.80	1.97	2.30	2.40	2.33	2.43	2.60	2.70
29	3.53	3.58	2.99	3.05	1.80	1.95	2.30	2.40	2.28	2.38	2.65	2.72
30	3.63	3.58	2.91	3.03	1.95	2.14	2.19	2.34	2.25	2.47	2.66	2.78
31	3.50	3.58	2.88	2.96	....	....	2.06	2.22	....	....	2.73	2.80

45. U. S. Geol. Survey. About 1,150 feet southwest of Louisville & Nashville Railroad, about 1,600 feet northeast of Gulf, Florida & Alabama Railroad, 0.5 mile south of Cantonment. Records available: 1940-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	91.46	91.53	91.30	91.37	91.00	91.09	91.97	91.13	91.15	91.19
2	.....	.....	91.36	91.46	91.33	91.43	90.93	91.05	91.03	91.17	91.17	91.24
3	.....	.....	91.06	91.35	91.35	91.45	90.98	91.23	91.13	91.20	91.17	91.27
4	.....	.....	91.01	91.04	91.28	91.37	91.08	91.30	91.19	91.27	91.13	91.22
5	90.60	91.02	91.05	91.15	91.17	91.28	91.07	91.34	91.10	91.18	91.07	91.17
6	90.44	90.71	91.04	91.14	91.03	91.18	91.34	90.44	91.98	91.09	91.04	91.11
7	90.12	90.43	91.02	91.28	91.18	91.58	91.37	91.42	90.86	90.98	91.05	91.16
8	90.03	90.12	91.18	91.29	91.12	91.32	91.27	91.39	90.91	90.99	91.16	91.27
9	90.04	90.14	91.17	91.25	91.01	91.12	91.27	91.34	90.98	91.07	91.27	91.36
10	90.07	90.17	91.14	91.52	91.01	91.28	91.30	91.42	90.94	91.01	91.32	91.37
11	89.94	90.08	91.47	91.47	91.28	91.36	91.15	91.32	90.95	91.12	91.22	91.30
12	89.86	89.93	91.38	91.50	91.29	91.36	91.00	91.13	91.11	91.20	91.21	91.26
13	89.87	90.67	91.35	91.41	91.15	91.31	91.09	91.19	91.17	91.24	91.19	91.25
14	90.67	91.11	91.17	91.36	91.10	91.25	91.18	91.26	91.22	91.28	91.12	91.17
15	91.11	91.31	91.08	91.14	91.07	91.40	91.25	91.36	91.15	91.28	91.04	91.10
16	91.31	91.38	91.12	91.30	90.58	91.07	91.39	91.46	91.15	91.17	91.08	91.14
17	91.38	91.46	91.30	91.44	90.90	91.01	91.31	91.40	91.15	91.22	91.14	91.23
18	91.36	91.63	91.20	91.37	90.99	91.35	91.27	91.30	91.18	91.25	91.20	91.28
19	91.63	91.83	91.15	91.24	91.35	91.50	91.30	91.44	91.12	91.20	91.18	91.28
20	91.75	91.83	91.24	91.41	91.38	91.51	91.37	91.44	90.99	91.12	91.19	91.23
21	91.63	91.74	91.41	91.44	91.11	91.38	91.31	91.39	90.94	91.01	91.17	91.26
22	91.64	91.73	91.34	91.47	91.01	91.11	91.25	91.31	91.00	91.10	91.01	91.15
23	91.69	91.74	91.27	91.36	91.11	91.18	91.26	91.34	91.04	91.16	91.01	91.05
24	91.69	91.73	91.18	91.27	91.17	91.31	91.23	91.30	90.99	91.10	91.01	91.12
25	91.73	91.83	91.15	91.25	91.27	91.37	91.32	91.44	91.01	91.10	91.09	91.25
26	91.65	91.83	91.06	91.19	91.22	91.34	91.43	91.52	91.04	91.14	91.23	91.28
27	91.36	91.65	90.99	91.11	90.79	91.09	91.17	91.42	91.11	91.18	91.21	91.26
28	91.36	91.43	91.17	91.29	91.07	91.23	91.09	91.17	91.08	91.17	91.17	91.23
29	91.43	91.67			91.22	91.32	91.02	91.09	91.12	91.23	91.17	91.20
30	91.22	91.64			91.09	91.29	90.97	91.07	91.11	91.26	91.12	91.18
31	91.24	91.46			91.03	91.10			91.08	91.21		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	91.09	91.20	91.14	91.19	90.35	90.45	90.29	90.62	91.61	91.70	90.76	91.05
2	91.17	91.25	91.18	91.24	90.24	90.37	90.61	90.73	91.64	91.72	90.62	90.76
3	91.21	91.29	91.20	91.36	90.15	90.27	90.69	90.79	91.62	91.74	90.44	90.63
4	91.28	91.32	91.35	91.41	90.01	90.15	90.77	90.83	91.67	91.74	90.27	90.44
5	91.25	91.31	91.30	91.37	89.80	90.01	90.73	90.78	91.68	91.82	90.23	90.37
6	91.17	91.26	91.33	91.37	88.92	89.80	90.75	90.91	91.81	91.87	89.85	90.23
7	91.16	91.23	91.32	91.38	88.20	88.92	90.91	91.04	91.75	91.85	89.74	89.85
8	91.23	91.38	91.28	91.35	87.10	88.20	91.04	91.16	90.97	91.75	89.83	90.37
9	91.24	91.41	91.22	91.31	87.10	88.83	91.11	91.18	90.45	90.97	90.37	90.92
10	91.27	91.32	91.26	91.33	88.31	89.27	91.08	91.15	90.14	90.45	90.92	91.29
11	91.26	91.32	91.28	91.37	89.27	89.48	91.09	91.16	90.04	90.15	91.29	91.41
12	91.28	91.37	91.19	91.30	89.48	89.56	91.09	91.15	89.87	90.04	91.04	91.42
13	91.23	91.33	91.06	91.20	89.46	89.54	91.15	91.23	89.78	89.87	90.68	91.04
14	91.31	91.36	91.05	91.12	89.47	89.54	91.20	91.28	89.77	90.33	90.49	90.68
15	91.33	91.41	91.12	91.22	89.54	89.59	91.15	91.25	90.33	91.14	90.44	90.57
16	91.40	91.49	91.17	91.25	89.53	89.59	91.17	91.30	91.14	91.39	90.54	90.64
17	91.45	91.48	91.23	91.29	89.59	89.69	91.30	91.46	91.39	91.65	90.37	90.59
18	91.47	91.55	91.21	91.24	89.64	89.72	91.46	91.55	91.65	91.76	90.28	90.37
19	91.47	91.53	91.09	91.16	89.60	89.69	91.43	91.54	91.70	91.83	90.36	90.43
20	91.34	91.48	91.07	91.16	89.58	89.66	91.44	91.51	91.62	91.72	90.34	90.42
21	91.26	91.38	91.12	91.20	89.59	89.63	91.45	91.51	91.63	92.01	90.18	90.34
22	91.38	91.45	91.21	91.27	89.59	89.60	91.51	91.56	92.01	92.09	90.15	90.38
23	91.44	91.53	91.22	91.29	89.43	89.49	91.49	91.58	91.85	92.01	90.38	90.69
24	91.46	91.54	91.25	91.30	.....	.....	91.47	91.52	91.57	91.85	.....	.....
25	91.40	91.49	91.31	91.36	89.51	89.59	91.47	91.53	91.55	91.82	.....	.....
26	91.39	91.44	91.26	91.36	89.52	89.55	91.53	91.65	91.79	91.89	.....	.....
27	91.37	91.43	91.09	91.28	89.41	89.54	91.55	91.65	91.71	91.80	.....	.....
28	91.36	91.46	91.12	91.32	89.29	89.41	91.54	91.60	91.44	91.72	89.98	90.14
29	91.26	91.36	91.17	91.40	89.33	89.77	91.45	91.57	91.57	91.64	90.14	90.94
30	91.20	91.27	.....	.....	89.77	90.29	91.30	91.45	91.05	91.67	89.94	91.27
31	91.17	91.24	90.44	90.78			91.34	91.61			91.27	91.54

46. U. S. Geol. Survey. 0.4 mile east of Ensley, 43.5 feet east of center line of Louisville & Nashville Railroad, 196 feet north of center line of graded cross road. Records available: 1939-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	57.70	57.77	58.26	58.34	58.82	58.88	59.24	59.29	58.92	58.97	58.72	58.75
2	57.61	57.70	58.30	58.34	58.87	58.92	59.20	59.25	58.94	58.97	58.75	58.82
3	57.64	57.68	58.17	58.30	58.92	58.95	59.22	59.35	58.97	59.00	58.82	58.87
4	57.62	57.66	58.14	58.17	58.90	58.94	59.27	59.40	58.95	58.99	58.85	58.88
5	57.62	57.67	58.15	58.18	58.82	58.90	59.23	59.42	58.89	58.95	58.82	58.86
6	57.67	57.81	58.13	58.19	58.77	58.83	59.42	59.52	58.77	58.79	58.79	58.83
7	57.79	57.84	58.14	58.27	58.83	58.96	59.51	59.54	58.66	58.77	58.79	58.87
8	57.78	57.81	58.26	58.30	58.88	58.95	59.47	59.52	58.62	58.67	58.87	58.97
9	57.81	57.90	58.30	58.34	58.77	58.84	59.43	59.50	58.63	58.68	58.87	59.04
10	57.90	57.94	58.27	58.55	58.77	58.94	59.47	59.55	58.60	58.64	58.96	59.02
11	57.90	57.92	58.55	58.60	58.94	59.03	59.27	59.39	58.62	58.68	58.92	58.99
12	57.85	57.90	58.54	58.59	59.01	59.04	59.21	59.32	58.67	58.75	58.90	58.94
13	57.85	57.90	58.52	58.58	58.97	59.03	59.23	59.26	58.74	58.79	58.85	58.90
14	57.87	57.90	58.47	58.57	58.95	59.04	59.25	59.29	58.75	58.80	58.84	58.87
15	57.87	57.91	58.44	58.47	59.04	59.24	59.27	59.34	58.72	58.78	58.76	58.84
16	57.89	57.90	58.45	58.57	59.24	59.30	59.34	59.40	58.70	58.74	58.75	58.80
17	57.87	57.91	58.57	58.69	59.12	59.24	59.27	59.37	58.71	58.80	58.80	58.88
18	57.87	57.94	58.56	58.67	59.07	59.24	59.24	59.27	58.77	58.82	58.88	58.94
19	57.34	58.15	58.51	58.56	59.24	59.37	59.26	59.29	58.72	58.78	58.89	58.92
20	58.09	58.12	58.56	58.69	59.31	59.39	59.22	59.29	58.65	58.72	58.87	58.90
21	58.07	58.09	58.69	58.74	59.14	59.31	59.16	59.23	58.60	58.65	58.88	58.93
22	58.08	58.12	58.72	58.74	59.02	59.14	59.12	59.17	58.60	58.68	58.84	58.92
23	58.10	58.14	58.70	58.75	59.10	59.19	59.09	59.15	58.68	58.74	58.80	58.84
24	58.13	58.14	58.65	58.70	59.17	59.28	59.07	59.15	58.68	58.73	58.80	58.84
25	58.14	58.19	58.64	58.69	59.27	59.36	59.09	59.18	58.70	58.77	58.85	58.95
26	58.12	58.18	58.61	58.68	59.27	59.33	59.15	59.21	58.71	58.76	58.85	58.99
27	57.99	58.12	58.51	58.68	59.22	59.28	59.04	59.18	58.69	58.77	58.95	58.98
28	57.98	58.10	58.68	58.82	59.24	59.34	58.94	59.04	58.72	58.77	58.94	58.96
29	58.10	58.28			59.33	59.39	58.92	58.95	58.72	58.78	58.90	58.95
30	58.11	58.28			59.29	59.37	58.89	58.94	58.69	58.79	58.86	58.90
31	58.11	58.26			59.24	59.29			58.68	58.74		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	58.85	58.89	57.60	57.67	57.74	57.82	57.93	58.00	58.58	58.79	59.84	59.92
2	58.84	58.87	57.59	57.63	57.82	57.84	57.96	58.00	58.77	58.82	59.92	60.03
3	58.83	58.85	57.63	57.69	57.78	57.86	57.96	57.99	58.77	58.90	60.01	60.04
4	58.83	58.87	57.69	57.74	57.70	57.81	57.90	57.96	58.77	58.91	60.00	60.03
5	58.76	58.84	57.69	57.75	57.70	57.76	57.87	57.90	58.89	58.99	60.03	60.07
6	58.72	58.77	57.66	57.70	.....	.....	57.87	57.92	58.99	59.04	60.02	60.05
7	58.70	58.74	57.59	57.67	57.66	57.66	58.92	58.00	59.00	59.05	59.95	60.02
8	58.72	58.80	57.53	57.59	57.54	57.59	58.00	58.07	58.99	59.01	59.97	60.14
9	58.67	58.82	57.49	57.53	57.54	57.58	58.06	58.09	59.00	59.03	60.14	60.18
10	58.69	58.77	57.50	57.52	57.58	57.64	58.02	58.06	59.02	59.04	60.17	60.18
11	58.64	58.70	57.49	57.54	57.64	57.69	58.02	58.06	59.02	59.04	60.18	60.20
12	58.62	58.68	57.42	57.49	57.66	57.70	58.02	58.05	59.02	59.04	.....	.....
13	58.63	58.67	57.29	57.42	57.62	57.66	58.05	58.11	59.00	59.04	.....	.....
14	58.59	58.63	57.30	57.32	57.63	57.66	58.11	58.14	59.03	59.07	.....	.....
15	58.59	58.60	57.31	57.35	57.66	57.67	58.12	58.14	59.06	59.21	.....	.....
16	58.57	58.60	57.35	57.41	57.66	57.68	58.12	58.18	59.21	59.31	.....	.....
17	58.54	58.57	57.39	57.41	57.67	57.72	58.18	58.29	59.31	59.43	.....	.....
18	58.52	58.56	57.32	57.39	57.73	57.77	58.29	58.35	59.42	59.48	.....	.....
19	58.60	58.52	57.29	57.32	57.71	57.76	58.32	58.37	59.44	59.49	.....	.....
20	58.44	58.50	57.29	57.34	57.70	57.74	58.33	58.37	59.39	59.44	.....	.....
21	58.40	58.44	57.29	57.39	57.69	57.75	58.35	58.42	59.40	59.59	.....	.....
22	58.37	58.44	57.37	57.44	57.65	57.74	58.41	58.46	59.59	59.64	.....	.....
23	58.34	58.39	57.42	57.49	57.65	57.77	58.45	58.49	59.59	59.63	.....	.....
24	58.33	58.34	57.47	57.54	.....	.....	58.43	58.47	59.42	59.59	.....	.....
25	58.10	58.23	57.51	57.58	57.77	57.81	58.43	58.48	59.40	59.59	.....	.....
26	58.05	58.10	57.51	57.57	57.80	57.82	58.48	58.55	59.59	59.64	.....	.....
27	57.98	58.05	57.35	57.51	57.77	57.82	58.53	58.55	59.59	59.61	.....	.....
28	57.94	58.00	57.37	57.48	57.71	57.77	58.54	58.54	59.61	59.64	.....	.....
29	57.82	57.94	57.48	57.52	57.72	57.86	58.50	58.56	59.62	59.65	.....	.....
30	57.73	57.82	57.47	57.52	57.86	57.94	58.42	58.50	59.65	59.84	.....	.....
31	57.67	57.73	57.71	57.75			58.43	58.58			.....	.....

60. U. S. Geol. Survey. In Pensacola, at foot of H Street. Records available: 1940-49.

High and low daily water level, from recorder charts										
Day	January		February		March		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	7.80	7.89	7.87	7.92	7.40	7.43	....	....	7.45	7.57
2	7.72	7.89	7.92	7.94	7.37	7.52	....	....	7.57	7.62
3	7.47	7.72	7.94	7.96	7.52	7.63	....	....	7.62	7.70
4	7.44	7.47	7.96	7.98	7.63	7.72	....	....	7.56	7.74
5	7.40	7.44	7.89	7.97	7.72	7.80	6.43	6.60	6.60	7.56
6	7.40	7.45	7.55	7.66	7.60	7.80	6.60	6.73	5.72	6.60
7	7.45	7.56	7.53	7.55	7.60	7.70	6.68	6.82	5.27	5.72
8	7.53	7.64	7.53	7.54	7.70	7.82	5.90	6.68	5.08	5.27
9	7.63	7.63	7.54	7.58	7.81	7.92	....	....	5.15	5.53
10	7.63	7.66	7.58	7.63	7.92	8.01	....	....	5.50	5.98
11	7.66	7.73	7.63	7.78	8.01	8.12	....	....	5.98	6.28
12	7.73	7.79	7.78	7.80	8.12	8.19	4.60	5.30	6.28	6.53
13	7.79	7.91	7.76	7.78	7.90	8.17	5.30	5.95	6.53	6.69
14	7.91	8.00	7.41	7.50	7.36	7.90	5.95	6.38	6.69	6.87
15	8.00	8.08	7.40	7.41	7.35	7.36	6.32	6.72	6.87	7.03
16	7.93	8.08	7.40	7.43	....	....	6.72	6.95	7.03	7.17
17	7.74	7.93	7.43	7.60	....	....	6.95	7.12	7.17	7.30
18	7.69	7.74	7.60	7.62	....	....	7.12	7.30	7.24	7.37
19	7.69	7.71	7.62	7.66	....	....	7.30	7.45	6.46	7.26
20	7.71	7.71	7.66	7.67	....	....	7.45	7.55	5.53	6.46
21	7.75	7.80	7.67	7.70	....	....	7.37	7.58	4.95	5.53
22	7.80	7.83	7.70	7.75	....	....	6.50	7.37	4.80	4.95
23	7.83	7.84	7.75	7.82	....	....	....	....	4.86	5.22
24	7.83	7.85	7.82	7.85	....	....	....	....	5.22	5.58
25	7.85	7.87	7.85	7.88	....	....	....	....	5.58	5.92
26	7.86	7.92	7.85	7.88	....	....	5.27	5.78	5.92	6.18
27	7.92	7.96	7.45	7.85	....	....	5.78	6.43	6.18	6.38
28	7.96	8.00	7.40	7.45	....	....	6.43	6.90	6.38	6.58
29	8.00	8.05	....	....	....	....	6.90	7.15	6.58	6.74
30	8.00	8.05	....	....	....	....	7.15	7.32	6.74	6.98
31	7.87	8.00	....	....	....	....	7.32	7.45	....	....

High and low daily water level, from recorder charts										
Day	July		August		September		October		November	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	6.98	7.13	7.20	7.21	7.35	7.36	7.55	7.57	7.32	7.32
2	7.13	7.19	7.19	7.20	7.36	7.40	7.52	7.55	....	....
3	7.16	7.21	7.15	7.19	7.34	7.40	7.45	7.52	7.33	7.34
4	7.21	7.22	7.15	7.15	7.30	7.34	7.47	7.48	7.34	7.37
5	7.22	7.23	7.15	7.16	7.28	7.30	7.44	7.47	7.37	7.38
6	7.22	7.23	7.16	7.19	7.28	7.28	7.42	7.44	7.38	7.39
7	7.23	7.23	7.19	7.20	7.28	7.30	7.41	7.42	7.39	7.39
8	7.22	7.23	7.20	7.20	7.30	7.31	7.41	7.41	7.39	7.40
9	7.22	7.26	7.20	7.20	7.30	7.32	7.41	7.42	7.40	7.40
10	7.26	7.33	7.20	7.20	7.33	7.34	7.42	7.43	7.40	7.41
11	7.33	7.37	7.20	7.20	7.34	7.34	7.39	7.43	7.41	7.42
12	7.37	7.40	7.20	7.21	7.34	7.34	7.40	7.41	7.42	7.42
13	7.40	7.45	7.21	7.23	7.34	7.36	7.37	7.42	7.40	7.42
14	7.45	7.47	7.23	7.24	7.36	7.40	7.37	7.39	7.39	7.40
15	7.47	7.50	7.23	7.24	7.40	7.44	7.38	7.38	7.39	7.39
16	7.50	7.50	7.20	7.23	7.44	7.50	7.40	7.41	7.39	7.39
17	7.48	7.50	7.20	7.20	7.50	7.54	7.41	7.42	7.39	7.40
18	7.45	7.48	7.20	7.21	7.54	7.59	7.42	7.43	7.40	7.41
19	7.43	7.45	7.21	7.22	7.59	7.62	7.43	7.43	7.41	7.42
20	7.43	7.45	7.22	7.23	7.61	7.62	7.43	7.44	7.42	7.42
21	7.43	7.45	7.23	7.24	7.62	7.63	7.44	7.44	7.42	7.43
22	7.40	7.43	7.24	7.25	7.63	7.64	7.44	7.44	7.43	7.46
23	7.35	7.40	7.25	7.25	....	....	7.43	7.44	7.46	7.47
24	7.30	7.35	7.25	7.25	7.64	7.65	7.43	7.43	7.47	7.48
25	7.24	7.30	7.25	7.25	7.64	7.64	7.42	7.43	7.48	7.49
26	7.20	7.24	7.26	7.27	7.63	7.64	7.44	7.44	7.49	7.50
27	7.20	7.23	7.27	7.29	7.61	7.63	7.41	7.41	7.50	7.51
28	7.22	7.24	7.29	7.31	7.60	7.61	7.41	7.41	7.51	7.51
29	7.20	7.22	7.31	7.32	7.58	7.60	7.40	7.41	7.51	7.52
30	7.20	7.21	7.32	7.34	7.57	7.58	7.33	7.40	7.52	7.52
31	7.21	7.22	7.35	7.35	....	....	7.32	7.33	....	....

GOA. U. S. Geol. Survey, in Pensacola, at foot of H. St. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	5.11	Apr. 13	3.82	July 13	4.95	Oct. 8	5.13
12	5.59	20	4.75	20	4.59	15	5.15
19	5.31	27	4.69	27	4.02	21	5.33
26	5.58	May 4	4.55	Aug. 3	1.58	26	5.32
Feb. 2	5.75	11	4.99	10	4.91	Nov. 2	5.42
9	5.08	18	5.13	17	4.98	9	5.53
16	5.10	25	5.43	24	5.28	16	5.70
23	5.52	June 1	5.55	31	5.53	23	6.10
Mar. 2	5.58	8	5.50	Sept. 7	5.02	30	6.08
9	5.64	15	5.20	10	5.20	Dec. 7	6.02
16	5.55	22	5.00	16	5.20	14	5.75
23	4.47	29	4.63	24	5.05	21	5.52
30	4.44	July 6	4.74	Oct. 1	5.02	28	5.74
Apr. 6	4.74						

62. U. S. Geol. Survey. In Petterson Addition, Pensacola, on south side of Corry Field switching lead of St. Louis-San Francisco Railway, about 1,000 feet east of railroad bridge across Bayou Chico, on west side of Twelfth Ave. extended. Records available: 1940-49.

High and low weekly water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	11.28	11.37	11.21	11.23	10.52	10.67	7.83	8.88	8.39	8.70	10.00	10.12
2	10.97	11.28	11.23	11.31	10.67	10.78	8.88	9.55	8.70	8.96	10.12	10.20
3	10.83	10.97	11.31	11.34	10.78	10.91	9.55	9.86	8.96	9.25	10.20	10.31
4	10.81	10.85	11.34	11.51	10.91	11.01	9.86	10.10	9.25	9.51	9.96	10.34
5	10.87	10.96	11.26	11.51	11.01	11.08	10.10	10.18	9.52	9.72	8.84	9.96
6	10.97	11.07	10.67	11.26	11.08	11.10	10.18	10.30	9.72	9.93	7.95	8.84
7	11.07	11.23	10.53	10.67	11.10	11.13	10.30	10.43	9.45	8.96	7.40	7.95
8	11.23	11.29	10.54	10.59	11.13	11.24	10.43	10.53	.....	.....	7.23	7.40
9	11.10	11.27	10.59	10.72	11.24	11.30	10.52	10.53	.....	.....	7.30	6.98
10	11.06	11.10	10.72	10.87	11.31	11.33	7.86	9.52	.....	.....	6.98	8.70
11	11.08	11.11	10.87	10.98	11.33	11.40	7.29	7.86	.....	.....	8.70	9.08
12	11.08	11.10	10.98	11.00	11.40	11.44	.....	.....	6.74	7.50	9.08	9.39
13	11.10	11.17	10.93	10.98	11.37	11.44	.....	.....	7.50	8.37	9.39	9.65
14	11.17	11.24	10.74	10.83	9.92	11.37	6.16	7.34	8.37	8.97	9.55	9.91
15	11.24	11.31	10.73	10.78	8.05	9.92	7.34	8.42	8.97	9.39	8.91	10.17
16	11.15	11.30	10.78	10.97	.....	.....	8.42	9.12	9.39	9.77	10.17	10.39
17	10.98	11.15	10.97	11.08	7.91	.....	9.12	9.50	9.77	9.98	.....	.....
18	10.94	10.98	11.08	11.14	.....	.....	9.50	9.76	9.98	10.13	.....	.....
19	10.94	11.01	11.06	11.15	.....	.....	9.76	10.01	10.13	10.26	.....	.....
20	11.01	11.10	11.02	11.06	.....	.....	10.01	10.23	10.26	10.29	.....	.....
21	11.10	11.15	10.94	11.02	.....	.....	10.23	10.36	10.00	10.29	.....	.....
22	11.15	11.18	10.93	10.94	.....	.....	10.36	10.41	9.99	10.00	.....	.....
23	11.08	11.16	10.93	10.97	.....	.....	9.64	10.41	.....	.....	7.15	7.71
24	11.07	11.08	10.97	11.00	11.13	11.18	.....	.....	.....	.....	7.71	8.30
25	11.07	11.08	11.00	11.01	11.15	11.18	.....	.....	.....	.....	8.30	8.73
26	11.02	11.27	10.95	11.02	10.00	11.15	.....	.....	7.70	8.17	8.73	9.03
27	11.27	11.42	10.58	10.95	6.70	10.00	.....	.....	8.17	8.74	9.03	9.27
28	11.41	11.45	10.46	10.58	6.26	6.70	6.10	6.97	8.74	9.28	9.27	9.50
29	11.41	11.44	.....	.....	.....	.....	6.97	7.78	9.28	9.71	9.49	9.69
30	11.31	11.41	.....	.....	.....	.....	7.78	8.39	9.71	9.90	9.69	9.89
31	11.23	11.31	.....	.....	6.50	7.83	.....	.....	9.90	10.00	.....	.....

High and low weekly water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	9.99	10.00	10.20	10.21	9.82	9.85	10.28	10.32	10.45	10.46	11.10	11.15
2	10.00	10.05	10.19	10.20	9.85	9.90	10.21	10.28	.....	.....	11.15	11.21
3	10.00	10.05	10.18	10.19	9.90	9.92	10.13	10.21	10.49	10.51	11.21	11.29
4	9.95	10.00	10.18	10.20	9.90	9.92	10.10	10.13	10.51	10.55	11.29	11.30
5	9.92	9.95	10.20	10.24	9.87	9.90	10.09	10.10	10.55	10.57	11.29	11.31
6	9.92	9.94	10.24	10.28	9.88	9.87	10.08	10.09	10.57	10.57	11.31	11.36
7	9.91	9.95	10.28	10.30	9.86	9.87	10.08	10.12	10.57	10.57	11.35	11.36
8	9.94	9.99	10.30	10.30	9.87	9.91	10.12	10.12	10.57	10.60	11.35	11.37

62--Continued.

High and low dally water level, from recorder charts												
Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
9	9.99	10.12	.....	.....	9.91	9.97	10.11	10.12	10.60	10.61	11.37	11.38
10	10.12	10.25	.....	.....	9.97	9.98	10.10	10.11	10.61	10.62	11.38	11.38
11	10.25	10.34	10.03	10.09	9.98	9.98	10.09	10.10	10.62	10.65	11.37	11.38
12	10.34	10.46	10.02	10.03	9.98	9.99	10.09	10.09	10.65	10.65	11.31	11.37
13	10.46	10.55	10.01	10.02	9.99	10.01	10.07	10.09	10.65	10.65	11.30	11.31
14	10.55	10.63	9.97	10.01	10.01	10.07	10.07	10.08	10.60	10.65	11.31	11.34
15	10.63	10.70	9.82	9.97	10.07	10.14	10.08	10.12	10.61	10.65	11.34	11.37
16	10.70	10.76	9.77	9.82	10.14	10.23	10.12	10.17	10.65	10.68	11.37	11.39
17	10.76	10.78	9.75	9.77	10.23	10.33	10.17	10.20	10.88	10.71	11.39	11.39
18	10.75	10.78	9.74	9.75	10.33	10.42	10.20	10.25	10.71	10.72	11.38	11.39
19	10.75	10.75	9.75	9.77	10.42	10.50	10.25	10.30	10.72	10.76	11.38	11.38
20	10.75	10.75	9.77	9.78	10.50	10.55	10.30	10.33	10.76	10.76	11.38	11.38
21	10.74	10.75	9.78	9.78	10.55	10.56	10.33	10.35	10.76	10.79	11.37	11.38
22	10.70	10.74	9.76	9.78	10.54	10.56	10.34	10.35	10.79	10.86	.....	.....
23	10.60	10.70	9.75	9.76	10.45	10.54	10.34	10.34	10.86	10.92	.....	.....
24	10.38	10.60	9.75	9.76	.....	.....	10.33	10.34	10.92	10.98	.....	.....
25	10.23	10.38	9.76	9.77	10.47	10.51	10.32	10.34	10.98	11.00	.....	.....
26	10.20	10.23	9.77	9.78	10.45	10.50	10.34	10.40	11.00	11.02	.....	.....
27	10.20	10.20	9.78	9.80	10.41	10.45	10.40	10.43	11.02	11.03	.....	.....
28	10.17	10.20	9.80	9.82	10.35	10.41	10.43	10.45	11.03	11.03	.....	.....
29	10.17	10.19	9.82	9.82	10.33	10.35	10.45	10.45	11.03	11.04	11.10	11.10
30	10.19	10.22	9.82	9.82	10.32	10.33	10.45	10.45	11.04	11.10	11.10	11.11
31	10.21	10.22	9.82	9.82	.....	.....	10.44	10.45	.....	.....	11.10	11.12

62A. U. S. Geol. Survey. In Petterson Addition, Pensacola, on south side of Corry Field switching lead of St. Louis-San Francisco Railway, about 1,000 feet east of railroad bridge across Bayou Chico, on west side of Twelfth Ave. extended. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	11.53	Apr. 13	10.95	July 13	10.75	Oct. 8	10.24
12	11.59	20	10.63	20	10.62	15	11.34
19	11.58	27	10.67	27	9.95	21	11.36
26	11.76	May 4	10.66	Aug. 3	9.77	26	11.25
Feb. 2	11.74	11	10.70	10	10.04	Nov. 2	11.44
9	11.85	18	10.77	17	10.53	9	10.58
16	11.80	25	10.94	24	10.71	16	11.86
23	11.82	June 1	11.05	31	10.83	23	11.90
Mar. 2	11.74	8	11.14	Sept. 7	11.17	30	12.02
9	12.01	15	11.27	10	11.19	Dec. 7	12.41
16	11.87	22	11.31	16	11.45	14	12.37
23	11.76	29	10.81	24	11.16	21	12.31
30	11.58	July 6	10.77	Oct. 1	11.09	28	12.24
Apr. 6	11.37						

Flagler County

5. George Brunner. 2.5 miles north of Flagler Beach, on west side of Highway A1A, in sec. 35, T. 11 S., R. 31 E. Records available: 1934, 1947-49. Jan. 6, +11.1; Aug. 18, +10.8.

Gadsden County

6. State of Florida. 1 mile south of Quincy, at Florida Experimental Station, 2 feet west of pumphouse, in NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 2 N., R. 3 W. Records available: 1946-49. Jan. 21, 137.30; Mar. 11, 137.03; Apr. 22, 136.81; June 4, 136.05; July 15, 137.78; Sept. 16, 138.20; Oct. 29, 138.90.

Gulf County

30. Apalachicola Northern Railroad Co. In Port St. Joe, at footings of old water tank north of depot, in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 1, T. 7 S., R. 11 W. Records available: 1946-49.

30--Continued.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	19.02	19.94	23.46	24.00	18.75	19.25	22.60	23.38	17.45	18.70	18.72	19.90
2	19.81	20.15	23.72	24.19	18.83	19.41	21.10	22.60	16.78	17.45	19.84	20.87
3	20.05	20.91	22.66	23.85	19.14	19.77	19.55	21.10	17.10	17.80	20.59	21.30
4	20.62	21.44	21.80	22.66	17.85	19.14	18.52	19.55	15.48	17.10	20.68	21.26
5	20.90	21.59	21.05	21.80	16.47	17.85	17.77	18.52	.....	.....	19.81	20.80
6	21.23	21.80	20.00	20.62	16.02	16.52	17.30	17.83	.....	.....	19.51	19.99
7	21.54	22.00	19.55	20.15	16.05	17.30	16.68	17.46	.....	.....	19.07	20.01
8	21.89	22.03	19.05	19.84	17.31	18.26	16.13	16.88	.....	.....	19.42	20.44
9	21.93	22.34	18.26	19.05	17.70	18.50	16.00	16.55	.....	.....	19.81	21.00
10	21.89	22.51	17.77	18.26	18.18	19.00	15.27	16.10	15.70	16.48	20.78	21.80
11	22.07	22.86	17.30	17.92	18.63	19.15	14.85	15.45	.....	.....	21.57	22.15
12	22.37	22.96	16.71	17.31	18.79	19.63	14.27	14.95	.....	.....	20.39	21.76
13	22.48	23.13	16.11	16.63	19.20	19.84	14.03	14.50	12.98	.....	19.08	20.39
14	22.55	23.25	15.55	16.15	19.54	20.17	13.93	14.39	13.43	14.75	18.58	19.57
15	22.62	23.48	15.25	16.15	19.61	20.40	13.73	14.24	14.75	15.93	19.21	20.18
16	22.60	23.25	15.30	16.12	19.97	20.43	13.51	14.10	15.93	16.61	19.79	21.20
17	22.70	23.15	15.40	16.22	20.11	20.80	13.05	13.65	16.31	17.61	20.94	21.80
18	22.44	23.20	15.45	16.45	20.58	21.04	12.85	13.36	17.43	18.42	20.90	23.50
19	22.47	.....	16.26	16.80	20.96	21.73	12.88	13.72	18.40	19.95	19.60	20.90
20	.....	23.30	16.67	17.15	21.47	21.87	13.65	15.50	19.89	20.68	18.95	19.60
21	.....	23.20	16.70	17.30	21.59	22.00	15.48	16.65	19.99	20.78	18.41	19.30
22	22.66	23.68	16.63	17.35	21.56	22.18	16.80	17.40	19.89	20.50	18.80	19.80
23	23.25	23.65	16.57	17.40	21.79	22.45	17.14	18.08	19.52	20.13	19.57	20.83
24	23.11	23.70	16.65	17.37	22.00	22.70	16.59	17.48	19.23	19.86	20.58	21.17
25	23.26	24.03	17.20	17.98	22.30	.....	15.98	16.64	19.30	20.50	19.70	20.60
26	23.48	24.19	17.65	18.40	.....	23.52	15.57	16.18	20.31	21.40	18.61	19.70
27	23.60	24.36	18.10	19.01	22.43	23.10	16.00	17.17	21.14	21.78	17.85	18.61
28	23.51	24.12	18.42	19.17	22.29	23.09	17.18	18.23	20.30	21.37	17.33	18.45
29	23.45	24.30	.....	.....	22.53	23.35	.....	.....	19.30	20.30	18.38	19.80
30	23.55	23.96	.....	.....	22.77	23.45	.....	19.35	18.50	19.30	19.70	20.77
31	23.38	23.47	.....	.....	22.97	23.57	.....	.....	18.20	18.98	.....	.....

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	20.38	20.92	16.88	17.80	20.89	22.15	24.73	25.44	24.65	25.19	25.50	26.08
2	19.00	20.40	16.19	17.12	21.55	22.34	24.66	25.17	24.75	25.13	25.29	26.11
3	18.10	19.00	16.90	18.44	21.57	22.27	24.57	25.21	24.66	25.45	25.67	26.38
4	17.30	18.10	18.25	19.52	21.63	22.51	24.52	25.27	25.00	25.70	25.60	26.09
5	16.50	17.30	19.33	20.14	21.70	22.50	24.68	25.22	24.72	25.40	25.31	26.19
6	16.50	17.26	19.05	19.75	20.78	21.70	24.69	25.38	24.60	25.25	25.41	26.11
7	17.12	18.74	17.60	19.05	20.43	21.42	24.81	25.44	24.43	25.25	25.35	26.08
8	18.51	19.95	16.82	17.60	21.12	22.34	24.85	25.72	24.70	25.40	25.25	25.97
9	19.69	20.78	15.93	16.80	21.84	22.60	24.85	25.56	24.72	25.63	25.30	25.81
10	19.42	20.75	16.57	17.68	22.00	23.08	24.61	25.40	24.69	25.45	25.30	26.16
11	18.10	19.42	17.68	18.95	22.48	23.37	24.77	25.58	24.30	25.48	25.40	26.02
12	17.61	18.54	18.80	19.90	22.79	23.61	.....	.....	24.80	25.52	25.20	26.05
13	18.22	19.43	19.50	20.37	23.04	23.92	.....	.....	24.60	25.09	.....	.....
14	19.18	20.21	18.60	19.81	23.40	24.20	.....	.....	24.30	25.29	25.10	25.79
15	19.80	20.39	17.94	20.93	23.46	24.52	.....	.....	24.83	25.50	25.12	25.66
16	19.21	20.00	18.30	19.88	23.87	24.58	.....	.....	24.91	25.53	25.25	26.08
17	17.95	19.21	19.49	20.63	23.78	24.43	.....	.....	25.05	25.41	25.28	25.96
18	16.70	17.95	20.20	21.23	23.61	24.37	.....	.....	24.95	25.81	24.79	25.28
19	16.08	17.14	20.26	21.93	23.73	24.53	.....	.....	24.27	25.92	24.69	25.64
20	16.70	18.04	21.39	21.94	23.99	24.60	.....	.....	25.05	25.68	24.95	25.48
21	17.61	18.70	19.88	21.58	23.98	24.55	.....	.....	24.90	25.70	24.93	25.89
22	18.35	19.65	19.09	20.00	23.95	24.48	.....	.....	25.02	25.78	25.13	25.67
23	19.47	20.27	18.17	19.20	23.93	24.65	.....	.....	25.10	25.86	25.13	25.90
24	18.58	20.00	18.88	20.30	24.18	25.07	.....	.....	25.02	25.99	24.48	25.52
25	17.40	18.58	20.03	21.15	24.20	25.00	25.31	26.20	24.87	25.76	22.87	24.43
26	16.83	17.50	20.75	22.03	24.22	25.09	25.39	26.22	25.21	26.06	21.50	22.87
27	17.67	18.95	21.65	22.71	24.26	25.14	25.53	26.40	25.34	25.85	21.28	22.00
28	18.71	20.02	21.80	22.52	24.27	25.15	25.50	26.21	25.18	25.91	20.87	21.50
29	19.71	20.45	20.52	21.80	24.47	25.29	25.29	26.08	25.20	25.84	20.75	21.87
30	19.00	20.10	19.76	20.65	24.58	25.31	24.99	25.54	25.10	26.01	21.59	22.24
31	17.80	19.00	20.18	21.32	.....	.....	24.79	25.38	.....	.....	21.98	23.16



Hendry County

G138. U. S. Geol. Survey.  $SW\frac{1}{4}SW\frac{1}{4}$  sec. 12, T. 48 S., R. 32 E. Records available: 1941-44. No measurements made in 1949.

G299. U. S. Geol. Survey.  $SW\frac{1}{4}SW\frac{1}{4}$  sec. 22, T. 44 S., R. 32 E. Records available: 1941-49. Jan. 31, 5.11; Feb. 15, 5.67; Apr. 27, 5.60; July 12, 2.98; July 20, 2.37; Sept. 7, 2.37.

Highlands County

H10. U. S. Geol. Survey.  $NE\frac{1}{4}SE\frac{1}{4}$  sec. 2, T. 35 S., R. 29 E., approximately 4 miles southeast of Sebring on State Highway 623. Drilled observation well, diameter 3 inches, depth 45 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Sept. 30, 1948	25.40	27.10	May 6, 1949	31.31	31.47
Oct. 7	25.35	25.40	13	31.47	31.60
14	25.28	25.40	20	31.60	31.73
21	25.28	25.47	27	31.73	31.87
28	25.47	25.73	June 3	31.87	32.00
Nov. 4	25.73	26.04	10	32.00	32.13
11	26.04	26.38	17	32.13	32.22
18	26.38	26.68	24	32.22	32.27
25	26.68	26.97	July 1	31.98	32.27
Dec. 2	26.97	27.25	Aug. 26	29.78	.....
23	27.81	28.04	Sept. 2	27.08	29.89
30	28.04	28.30	9	27.03	27.23
Jan. 7, 1949	28.30	28.51	16	27.23	27.56
14	28.51	28.72	23	27.56	27.82
21	28.72	28.87	30	27.82	28.02
28	28.97	29.05	Oct. 7	27.93	28.00
Feb. 4	29.05	29.25	14	28.00	28.07
11	29.25	29.45	21	28.07	28.20
18	29.45	29.63	28	28.20	28.34
25	29.63	29.79	Nov. 4	28.34	28.51
Mar. 4	29.79	29.98	11	28.51	28.70
11	29.98	30.17	18	28.70	28.89
18	30.17	30.35	25	28.89	29.07
25	30.35	30.53	Dec. 2	29.07	29.27
Apr. 1	30.53	30.69	9	29.27	29.45
8	30.69	30.86	16	29.45	29.63
15	30.86	31.02	23	29.63	29.80
22	31.02	31.16	30	29.80	29.98
29	31.16	31.31			

H11. U. S. Geol. Survey.  $NW\frac{1}{4}SW\frac{1}{4}$  sec. 14, T. 35 S., R. 31 E., State Highway 66, 3.1 miles northwest of Istokpoga Canal. Drilled observation well, diameter 6 inches, depth 16 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Nov. 11, 1948	2.52	2.74	Feb. 13, 1949	3.95	4.04
18	2.74	2.92	25	4.04	4.15
25	2.91	3.01	Mar. 4	4.15	4.27
Dec. 2	2.57	3.06	11	4.27	4.41
9	2.67	3.02	18	4.41	4.50
16	3.02	3.19	25	2.69	4.50
23	3.19	3.32	Apr. 1	2.69	3.04
30	3.32	3.43	8	3.04	3.20
Jan. 7, 1949	3.43	3.51	15	3.20	3.38
14	3.51	3.59	22	2.24	3.38
21	3.59	3.70	29	2.74	2.86
28	3.70	3.77	May 6	2.58	2.93
Feb. 4	3.77	3.87	13	2.72	3.10
11	3.85	3.95	20	2.97	3.34

H11--Continued.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
May 27, 1949	3.34	3.65	Sept. 16, 1949	.78	1.95
June 3	3.65	3.87	23	.98	2.08
10	3.87	4.06	30	.18	1.90
17	1.35	3.99	Oct. 7	.55	1.84
24	1.57	1.92	14	1.22	1.94
July 1	.96	1.78	21	1.77	2.30
8	1.19	2.12	28	2.30	2.52
15	1.65	2.20	Nov. 4	2.50	2.79
22	1.22	2.34	11	2.78	2.94
29	1.60	1.90	18	2.77	3.00
Aug. 5	1.32	1.84	25	3.00	3.17
12	.99	1.90	Dec. 2	3.17	3.32
19	.82	1.99	9	3.32	3.43
26	1.37	2.04	16	3.43	3.55
Sept. 2	.13	1.92	23	3.55	3.65
9	.74	1.84	30	3.56	3.67

H12. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 36 S., R. 33 E., on State Highway 66, near Fort Bassinger. Drilled observation well, diameter 6 inches, depth 21 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Mar. 4	4.53	4.65	Aug. 5	3.62	3.95
11	4.65	4.78	12	3.95	4.10
18	4.78	4.92	19	3.95	4.15
25	4.92	5.04	26	4.15	4.39
Apr. 1	5.04	5.14	Sept. 2	1.96	4.39
8	5.14	5.17	9	2.74	3.22
15	5.17	5.25	16	3.19	3.41
22	5.25	5.35	23	2.96	3.41
29	5.35	5.47	30	.17	3.18
May 6	5.47	5.49	Oct. 7	.87	2.08
13	5.47	5.56	14	.71	2.08
20	5.56	5.63	21	2.04	2.58
27	5.63	5.78	28	2.58	2.82
June 3	5.78	5.92	Nov. 4	2.82	3.14
10	5.92	6.05	11	3.14	3.28
17	6.05	6.10	18	3.28	3.44
24	4.77	6.09	25	3.44	3.60
July 1	4.32	4.77	Dec. 2	3.60	3.79
8	4.30	4.50	9	3.79	3.93
15	3.95	4.45	16	3.93	4.07
22	3.53	4.19	23	4.07	4.21
29	3.55	3.76	30	3.79	4.23

H13. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 26, T. 37 S., R. 33 E., on State Highway 70, 0.5 mile west of Kissimmee River bridge. Drilled well, diameter 6 inches, depth 20 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Oct. 14, 1948	0.37	1.26	Dec. 30, 1948	3.46	3.66
21	1.26	1.74	Jan. 7, 1949	3.66	3.82
28	1.74	2.10	14	3.82	3.95
Nov. 4	2.10	2.40	21	3.95	4.06
11	2.40	2.74	28	4.06	4.14
18	2.74	2.97	Feb. 4	4.14	4.26
25	2.97	....	11	4.26	4.38
Dec. 16	3.18	3.27	18	4.38	4.47
23	3.27	3.46	25	4.47	4.61

## H13--Continued.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Mar. 4, 1949	4.61	4.72	Aug. 26, 1949	2.70	3.27
11	4.72	4.84	Sept. 2	.00	3.10
18	4.84	4.95	9	.73	2.26
25	4.95	5.07	16	.03	1.46
Apr. 1	5.07	5.19	23	.81	2.10
8	5.19	5.31	30	+1.13	2.25
15	5.31	5.39	Oct. 7	.34	1.81
22	5.39	5.46	14	1.40	2.34
29	5.46	5.54	21	2.34	2.78
May 6	5.54	5.57	28	2.78	2.97
13	5.57	....	Nov. 4	2.97	3.20
July 8	4.55	4.65	11	3.20	3.38
15	4.65	4.81	18	3.06	3.38
22	4.24	4.88	25	3.35	3.57
29	3.42	4.33	Dec. 2	3.57	3.76
Aug. 5	2.97	3.42	9	3.76	3.90
12	2.89	3.10	16	3.90	4.05
19	2.82	3.27	23	4.05	4.15

H14. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 4, T. 38 S., R. 30 E., on State Highway 25, 0.1 mile south of State Highway 70. Drilled observation well, diameter 6 inches, depth 34.8 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Sept. 23, 1948	12.00	14.75	May 20, 1949	17.07	17.20
30	11.69	12.00	27	17.20	17.35
Oct. 7	11.36	11.69	June 3	17.35	17.46
14	11.33	11.60	10	17.46	17.59
21	11.50	11.84	17	17.59	17.65
28	11.84	12.11	24	17.65	17.67
Nov. 4	12.11	12.35	July 1	17.25	17.67
11	12.35	12.57	8	17.22	17.25
18	12.57	12.80	15	16.50	17.22
25	12.80	13.01	22	16.32	16.50
Dec. 2	13.01	13.21	29	16.32	16.33
9	13.21	13.40	Aug. 5	16.32	16.38
16	13.40	13.61	12	16.33	16.37
23	13.61	13.80	19	16.08	16.33
30	13.80	13.98	26	16.00	16.08
Jan. 7, 1949	13.98	14.20	Sept. 2	14.77	16.00
14	14.20	14.38	9	14.75	14.87
21	14.38	14.58	16	14.87	15.07
28	14.58	14.76	23	15.07	15.22
Feb. 4	14.76	14.93	30	14.86	15.32
11	14.93	15.13	Oct. 7	14.56	14.86
18	15.13	15.30	14	14.56	14.78
25	15.30	15.47	21	14.78	15.01
Mar. 4	15.47	15.65	28	15.01	15.15
11	15.65	15.81	Nov. 4	15.15	15.30
18	15.81	15.97	11	15.30	15.44
25	15.97	16.11	18	15.44	15.58
Apr. 1	16.11	16.25	25	15.58	15.71
8	16.25	16.39	Dec. 2	15.71	15.85
15	16.39	16.54	9	15.85	15.98
22	16.54	16.68	16	15.98	16.11
29	16.68	16.82	23	16.11	16.24
May 6	16.82	16.93	30	16.24	16.40
13	16.93	17.07			

High and low weekly water level, from recorder charts					
Week ending	High	Low	Week ending	High	Low
Jan. 7	3.17	3.36	May 20	2.45	3.05
14	3.36	3.48	Sept. 9	1.93	2.32
21	3.48	3.59	16	.44	2.32
28	3.59	3.66	23	.82	2.13
Feb. 4	3.66	3.76	30	.24	2.20
11	3.76	3.87	Oct. 7	.41	1.83
18	3.87	3.98	14	1.82	2.22
25	3.98	4.06	21	2.22	2.48
Mar. 4	4.06	4.18	28	2.44	2.60
11	4.18	4.28	Nov. 4	2.41	2.70
18	4.28	4.37	11	2.62	2.80
25	4.37	4.46	18	2.06	2.69
Apr. 1	4.46	4.54	25	2.42	2.68
8	4.54	4.63	Dec. 2	2.68	2.87
15	4.47	4.70	9	2.87	2.97
22	4.33	4.47	16	2.97	3.08
29	4.22	4.68	23	3.08	3.16
May 6	2.40	4.22	30	2.70	3.17
13	2.57	3.12			

13. City of St. Petersburg. About 5 miles northeast of Citrus Park, in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 21, T. 27 S., R. 18 E. Records available: 1930-35, 1937, 1939-40, 1944-49.

[illegible]

13 --Continued.

High and low daily water level, from recorder charts										
Day	August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	8.66	8.78	....	....	6.15	6.27	6.59	6.68	7.30	7.41
2	8.57	8.66	....	....	6.25	6.32	6.63	6.70	7.38	7.49
3	8.53	8.57	....	....	6.27	6.34	6.61	6.70	7.43	7.52
4	8.45	8.55	....	....	6.27	6.33	6.66	6.73	7.43	7.50
5	8.35	8.46	....	....	6.25	6.30	6.70	6.80	7.43	7.52
6	8.28	8.40	....	....	6.26	6.33	6.76	6.85	7.44	7.52
7	8.23	8.32	....	....	6.23	6.31	6.79	6.87	7.40	7.48
8	8.16	8.28	....	....	6.15	6.24	6.81	6.87	7.44	7.54
9	8.08	8.17	....	....	6.12	6.17	6.80	6.87	7.53	7.57
10	8.10	8.17	....	....	6.07	6.13	6.82	6.85	7.55	7.59
11	8.05	8.15	....	....	6.07	6.10	6.84	6.87	7.56	7.61
12	7.60	8.05	....	....	6.06	6.10	6.86	6.90	7.58	7.63
13	7.45	7.60	....	....	6.06	6.10	6.82	6.92	7.57	7.70
14	7.38	7.45	....	....	6.03	6.08	6.67	6.82	7.55	7.62
15	7.34	7.38	....	....	6.03	6.08	6.70	6.87	7.53	7.62
16	7.29	7.34	....	....	6.06	6.22	6.85	6.97	7.62	7.75
17	7.27	7.32	....	....	6.22	6.33	6.90	6.98	7.70	7.77
18	....	....	....	....	6.02	6.62	6.93	7.04	7.67	7.75
19	6.32	6.37	....	....	6.37	6.45	6.98	7.06	7.68	7.75
20	....	....	....	....	6.42	6.55	6.97	7.06	7.69	7.75
21	....	....	....	....	6.48	6.62	6.97	7.07	7.68	7.75
22	....	....	6.40	6.54	6.58	6.67	7.07	7.16	7.68	7.73
23	....	....	6.36	6.45	6.63	6.70	7.10	7.16	7.73	7.86
24	....	....	6.35	6.42	6.65	6.72	7.08	7.15	7.85	7.88
25	....	....	6.35	6.41	6.71	6.77	7.00	7.11	7.70	7.86
26	....	....	6.35	6.40	6.75	6.82	7.11	7.19	7.56	7.70
27	....	....	6.25	6.37	6.79	6.84	7.18	7.22	7.47	7.56
28	....	....	6.04	6.25	6.74	6.82	7.20	7.25	7.45	7.51
29	....	....	6.10	6.17	6.67	6.75	7.18	7.25	7.44	7.49
30	....	....	6.10	6.15	6.63	6.72	7.18	7.13	7.44	7.52
31	....	....	....	....	6.59	6.67	....	....	7.49	7.57

Holmes County

4. Mrs. D. Hughes. At Ponce de Leon, south of railroad and east of depot on east side of pumphouse, in SW $\frac{1}{4}$  sec. 27, T. 3 N., R. 17 W. Records available: 1947-49. Jan. 21, +5.58; Mar. 11, +5.55; June 4, +4.53; Oct. 29, +4.34; Dec. 16, +3.48.

7. Charles McAllister. In Wynnum, in field on south side of Louisville & Nashville Railroad tracks. NW $\frac{1}{4}$  sec. 36, T. 7 N., R. 14 W. Records available: 1947-49.

High and low daily water level, from recorder charts												
Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	8.67	8.74	8.71	8.74	8.44	8.49	8.40	8.45	8.12	8.16	8.85	8.90
2	8.65	8.70	8.70	8.71	8.46	8.50	8.38	8.44	8.13	8.16	8.90	8.94
3	8.66	8.70	8.61	8.70	8.47	8.50	8.18	8.45	8.14	8.16	8.94	8.97
4	8.68	8.70	8.58	8.61	8.47	8.50	8.37	8.50	8.16	8.19	8.97	9.01
5	8.60	8.67	8.57	8.60	8.43	8.47	8.34	8.40	8.16	8.19	8.97	9.00
6	8.61	8.66	8.50	8.58	8.37	8.43	8.40	8.45	8.12	8.16	8.96	9.01
7	8.61	8.64	8.43	8.52	8.38	8.50	8.40	8.44	8.09	8.13	8.99	9.07
8	8.59	8.64	8.45	8.52	8.41	8.49	8.36	8.41	8.11	8.18	9.03	9.10
9	8.64	8.70	8.43	8.47	8.33	8.41	8.36	8.45	8.16	8.23	9.05	9.11
10	8.67	8.70	8.36	8.56	8.31	8.49	8.41	8.48	8.14	8.22	9.02	9.10
11	8.64	8.70	8.53	8.56	8.46	8.51	8.28	8.45	8.21	8.28	8.93	9.02
12	8.64	8.67	8.49	8.55	8.46	8.52	8.09	8.30	8.28	8.37	8.89	8.93
13	8.62	8.68	8.47	8.53	8.45	8.52	8.12	8.16	8.34	8.41	8.86	8.90
14	8.64	8.69	8.45	8.51	8.39	8.50	8.16	8.21	8.39	8.44	8.85	8.86
15	8.66	8.70	8.42	8.45	8.46	8.57	8.19	8.23	8.40	8.45	8.81	8.84
16	8.67	8.70	8.41	8.43	8.52	8.58	8.23	8.28	8.44	8.47	8.80	8.83
17	8.68	8.70	8.49	8.55	8.44	8.52	8.25	8.27	8.47	8.54	8.83	8.90
18	8.69	8.70	8.47	8.55	8.39	8.52	8.24	8.25	8.54	8.56	8.90	8.95
19	8.69	8.75	8.44	8.46	8.53	8.59	8.25	8.30	8.55	8.57	8.94	8.95

7--Continued,

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
20	8.75	8.76	8.44	8.49	8.56	8.59	8.30	8.33	8.54	8.57	8.95	8.97
21	8.72	8.75	8.46	8.49	8.48	8.55	8.30	8.33	8.54	8.59	8.94	8.98
22	8.73	8.76	8.44	8.48	8.41	8.47	8.27	8.33	8.59	8.66	8.85	8.94
23	8.75	8.80	8.42	8.46	8.45	8.53	8.24	8.28	8.66	8.70	8.83	8.90
24	8.78	8.80	8.40	8.45	8.52	8.60	8.21	8.26	8.66	8.71	8.84	8.88
25	8.79	8.83	8.41	8.45	8.56	8.64	8.25	8.33	8.70	8.76	8.85	8.94
26	8.75	8.82	8.39	8.45	8.57	8.61	8.29	8.35	8.74	8.79	8.90	8.95
27	8.70	8.79	8.34	8.40	8.54	8.60	8.24	8.30	8.76	8.84	8.90	8.95
28	8.68	8.78	8.40	8.46	8.54	8.59	8.22	8.27	8.81	8.86	8.85	8.95
29	8.79	8.90			8.56	8.61	8.16	8.22	8.83	8.89	8.85	8.87
30	8.72	8.90			8.50	8.57	8.12	8.17	8.85	8.90	8.85	8.86
31	8.65	8.73			8.42	8.50			8.84	8.87		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	8.84	8.86	8.29	8.35	8.56	8.61	9.13	9.17	9.34	9.40	9.88	9.91
2	8.84	8.86	8.24	8.30	8.55	8.61	9.10	9.15	9.35	9.40	9.89	9.97
3	8.81	8.83	8.24	8.27	8.53	8.60	9.10	9.15	9.33	9.45	9.95	9.97
4	8.75	8.80	8.27	8.34	8.52	8.55	9.07	9.12	9.40	9.45	9.91	9.97
5	8.73	8.78	8.28	8.35	8.51	8.57	9.05	9.10	9.41	9.51	9.94	9.97
6	8.71	8.78	8.27	8.34	8.52	8.58	9.07	9.13	9.50	9.51	9.88	9.96
7	8.73	8.80	8.26	8.32	8.52	8.57	9.05	9.10	9.47	9.52	9.75	9.88
8	8.77	8.87	8.26	8.31	8.52	8.55	9.10	9.13	9.46	9.50	9.81	9.87
9	8.80	8.90	8.28	8.32	8.54	8.57	9.07	9.13	9.47	9.50	9.85	9.89
10	8.82	8.85	8.30	8.37	8.57	8.63	9.05	9.08	9.48	9.50	9.82	9.85
11	8.81	8.85	8.36	8.43	8.63	8.68	9.04	9.07	9.48	9.51	9.80	9.82
12	8.80	8.83	8.35	8.39	8.67	8.68	9.03	9.05	9.50	9.52	9.81	9.85
13	8.78	8.80	8.35	8.37	8.66	8.67	9.04	9.08	9.48	9.50	9.81	9.85
14	8.75	8.77	8.35	8.39	8.67	8.72	9.08	9.12	9.47	9.51	9.79	9.83
15	8.60	8.75	8.39	8.45	8.72	8.76	9.07	9.12	9.50	9.57	9.70	9.80
16	8.66	8.70	8.43	8.48	8.74	8.80	9.08	9.17	9.57	9.64	9.75	9.80
17	8.63	8.68	8.43	8.47	8.77	8.84	9.17	9.25	9.61	9.67	9.68	9.80
18	8.60	8.65	8.38	8.44	8.82	8.88	9.23	9.28	9.65	9.72	9.62	9.70
19	8.55	8.60	8.40	8.44	8.83	8.89	9.23	9.30	9.65	9.72	9.61	9.65
20	8.54	8.56	8.41	8.43	8.82	8.90	9.25	9.32	9.62	9.69	9.58	9.65
21	8.54	8.59	8.42	8.50	8.84	8.90	9.27	9.36	9.63	9.79	9.52	9.60
22	8.55	8.60	8.45	8.51	8.82	8.90	9.34	9.40	9.77	9.81	9.47	9.53
23	8.47	8.60	8.43	8.50	8.80	8.87	9.37	9.40	9.72	9.78	9.54	9.66
24	8.42	8.50	8.45	8.50	8.87	8.91	9.37	9.40	9.62	9.72	9.66	9.68
25	8.40	8.46	8.49	8.54	8.91	8.94	9.38	9.40	9.62	9.73	9.61	9.67
26	8.40	8.45	8.53	8.55	8.94	8.95	9.40	9.45	9.73	9.78	9.57	9.61
27	8.40	8.47	8.42	8.52	8.92	8.95	9.44	9.46	9.72	9.75	9.58	9.60
28	8.43	8.47	8.42	8.59	8.90	8.96	....	....	9.75	9.78	9.60	9.65
29	8.43	8.46	8.59	8.62	8.93	9.06	9.39	9.46	9.72	9.77	9.64	9.67
30	8.41	8.45	8.62	8.64	9.06	9.15	9.50	9.39	9.74	9.87	9.65	9.70
31	8.35	8.41	8.56	8.65			9.26	9.35			9.69	9.73

Jackson County

11. Mose Speight. 3 miles west of Cottondale, in field on west side of U. S. Highway 90, in NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 34, T. 5 N., R. 12 W. Records available: 1946-48. No measurement made in 1949.

14. W. C. McRae. 0.5 mile north of Campbellton, on east side of U. S. Highway 23, in pumphouse 75 feet north of farmhouse, in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 2, T. 6 N., R. 12 W. Records available: 1946-49. Jan. 21, 25.75; Mar. 11, 21.09; April 22, 20.90; June 4, 25.72; July 15, 30.10; Sept. 16, 26.15.

Lee County

246. U. S. Geol. Survey, Fort Myers, in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 20, T. 44 S., R. 25 E. Water levels affected by pumpage of nearby well from May 26 to June 12. Records available: 1945-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 21	....	6.25	Aug. 12	0.34	0.71
28	6.25	6.32	19	.41	1.43
Feb. 4	6.32	6.43	26	.43	1.36
Apr. 22	....	7.37	Sept. 2	.41	1.53
29	7.37	7.42	9	.69	1.70
May 6	7.18	7.46	16	.43	1.54
13	6.60	7.18	23	1.50	2.26
20	6.37	6.60	30	.29	2.49
27	6.33	8.16	Oct. 7	.31	.99
June 3	7.30	9.10	14	.34	1.27
10	7.96	9.67	21	.84	1.64
17	3.36	9.64	28	1.64	2.16
July 1	....	2.78	Nov. 4	2.16	2.72
8	2.78	3.11	11	2.72	3.10
15	.44	3.14	18	2.26	3.14
22	.33	.75	25	2.66	3.16
29	.41	.81	Dec. 2	3.16	3.54
Aug. 5	.35	.74	9	3.54	3.85

414. Lee County and city of Fort Myers. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 21, T. 44 S., R. 26 E., about 3,900 feet southwest of well L418. Drilled U. S. Army supply well, diameter 8 inches, depth 93.5 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
June 24, 1948	....	3.93	July 22, 1949	1.67	2.18
July 1	3.93	4.12	29	1.72	2.08
8	3.38	3.97	Aug. 5	1.38	1.75
15	....	3.71	12	1.50	2.03
Sept. 2	1.81	2.33	19	1.48	2.14
9	1.60	3.10	26	1.57	2.28
16	2.34	2.77	Sept. 2	1.85	2.28
Jan. 21, 1949	....	4.65	9	2.15	2.72
28	4.65	4.72	16	2.14	2.77
Feb. 4	4.72	4.77	23	2.30	2.93
11	4.77	4.90	30	1.16	3.06
18	4.90	4.95	Oct. 7	1.15	1.88
25	4.95	5.02	14	1.88	2.52
Mar. 4	5.00	5.11	21	2.52	3.03
11	5.10	5.17	28	3.02	3.24
18	5.14	5.20	Nov. 4	3.24	3.47
25	5.19	....	11	3.47	3.59
May 27	....	4.03	18	3.37	3.64
June 3	4.03	4.17	25	3.52	3.72
10	4.17	4.35	Dec. 2	3.72	3.91
17	2.45	4.20	9	3.91	4.01
24	1.97	2.68	16	4.01	4.14
July 1	1.79	2.41	23	4.14	4.21
8	2.40	2.64	30	3.61	4.22
15	1.88	2.64			

Leon County

5. City of Tallahassee. At Gadsden and Gaines Sts., in pumphouse, in NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, T. 1 S., R. 1 W. Measurements supplied by city of Tallahassee. Records available: 1931-49.

5--Continued.

Daily water level, from recorder charts												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	90.6	93.7	94.6	95.6	94.2	95.9	97.2	95.6	94.5	96.0	97.5	98.7
2	90.5	93.8	94.6	95.7	94.3	96.0	97.2	95.1	94.7	96.0	97.6	98.7
3	90.5	93.8	94.7	95.7	94.4	96.1	97.1	94.8	94.7	96.1	97.6	98.7
4	90.4	93.9	94.7	95.6	94.5	96.1	97.1	94.5	94.6	96.1	97.7	98.8
5	90.4	93.8	94.7	95.5	94.6	96.2	97.1	94.2	94.7	96.1	97.7	98.8
6	90.3	93.8	94.7	95.4	94.6	96.2	97.1	94.3	94.8	96.2	97.7	98.8
7	90.3	93.7	94.7	95.4	94.7	96.3	97.1	94.3	94.8	96.3	97.8	98.9
8	90.2	93.7	94.8	95.5	94.7	96.3	97.1	94.2	94.7	96.3	97.8	98.9
9	90.2	93.8	94.8	95.3	94.7	96.4	97.1	94.2	94.8	96.5	97.9	99.0
10	90.1	93.7	94.8	95.1	94.7	96.4	97.1	94.1	94.8	96.5	97.9	99.0
11	90.1	93.9	94.9	94.9	94.8	96.4	97.1	94.1	95.0	96.6	97.9	99.0
12	90.0	93.9	94.9	94.8	94.9	96.5	97.1	94.1	95.0	96.6	98.0	99.1
13	90.0	94.0	95.0	94.8	95.0	96.5	97.1	94.1	95.1	96.7	98.0	99.1
14	91.9	94.0	94.9	94.8	95.1	96.6	97.1	94.1	95.2	96.7	98.0	99.1
15	91.9	94.1	94.9	94.7	95.1	96.6	97.1	94.1	95.3	96.7	98.1	99.2
16	92.1	94.1	95.0	94.4	95.2	96.7	97.0	94.1	95.4	96.7	98.1	99.2
17	92.2	94.1	95.0	94.4	95.3	96.7	97.0	94.1	95.4	96.8	98.1	99.3
18	92.4	94.1	95.1	94.5	95.3	96.8	97.0	94.1	95.5	96.9	98.1	99.3
19	92.6	94.2	95.1	94.5	95.4	96.8	96.9	94.2	95.6	97.0	98.3	99.4
20	92.7	94.2	95.1	94.4	95.4	96.9	96.7	94.1	95.6	97.1	98.3	99.4
21	92.9	94.2	95.1	94.4	95.5	96.9	96.7	94.2	95.5	97.1	98.4	99.5
22	93.1	94.3	95.1	94.3	95.5	97.0	96.7	94.1	95.5	97.1	98.4	99.5
23	93.2	94.3	95.1	94.3	95.6	97.0	96.7	94.2	95.5	97.1	98.4	99.6
24	93.3	94.4	95.0	94.2	95.6	97.1	96.7	94.3	95.7	97.2	98.5	99.6
25	93.4	94.4	95.1	94.3	95.7	97.1	96.6	94.4	95.7	97.2	98.5	99.7
26	93.4	94.4	95.1	94.4	95.7	97.1	96.5	94.4	95.7	97.3	98.5	99.7
27	93.5	94.5	95.2	94.3	95.7	97.1	96.4	94.3	95.8	97.4	98.6	99.7
28	93.5	94.5	95.5	94.3	95.7	97.1	96.3	94.4	95.8	97.4	98.6	99.7
29	93.6		95.5	94.3	95.8	97.1	96.3	94.6	95.9	97.4	98.7	99.8
30	93.6		95.5	94.3	95.8	97.2	96.2	94.6	96.0	97.4	98.7	99.8
31	93.7		95.6		95.9		95.9	94.6		97.3		99.9

7. City of Tallahassee. NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec. 36, T. 1 N., R. 1 W., in Lafayette Park, at Gadsden and Williams Sts., in pumphouse. Records available: 1945-49.

High and low daily water level, from recorder charts						
Day	July		August		September	
	High	Low	High	Low	High	Low
1	156.86	157.12	155.40	156.86	154.54	155.88
2	156.90	158.18	155.29	156.56	154.57	154.85
3	156.85	157.08	154.93	156.30	154.60	155.98
4	156.82	158.07	154.77	155.05	.....	.....
5	156.81	157.06	154.55	155.94	.....	156.09
6	156.77	158.12	154.40	154.69	154.68	156.25
7	156.78	157.04	154.33	155.58	154.75	156.08
8	156.82	157.08	154.27	155.57	154.77	156.04
9	156.82	157.07	154.23	154.50	154.82	156.17
10	156.77	156.98	154.25	154.48	154.92	155.18
11	156.78	157.05	154.17	155.50	154.98	156.32
12	156.81	157.06	154.13	154.39	155.04	155.30
13	156.80	157.02	154.06	155.40	155.02	156.36
14	156.83	157.05	154.07	154.28	155.10	155.36
15	156.81	157.04	154.13	155.45	155.17	156.47
16	156.82	156.87	154.15	154.38	155.22	155.49
17	156.82	157.03	154.14	154.33	155.29	156.67
18	156.77	157.00	154.08	155.43	155.35	155.62
19	156.68	156.93	154.10	154.37	155.38	155.63
20	156.58	157.93	154.40	155.52	155.40	155.66
21	156.52	156.77	154.05	154.43	155.40	155.65
22	156.53	157.86	154.21	155.55	155.38	155.63
23	156.52	156.75	154.23	154.50	155.40	155.68
24	156.38	156.55	154.28	155.63	155.51	155.72
25	156.32	156.58	154.33	154.61	155.58	155.78
26	156.27	156.54	154.34	155.69	155.60	155.86
27	156.25	157.58	154.15	154.48	155.65	155.99
28	156.20	157.52	154.23	155.72	155.66	155.90
29	156.18	156.40	154.47	154.73	155.70	155.99
30	156.04	157.44	154.52	155.83	155.82	157.15
31	155.71	156.06	154.53	155.86		



7--Continued.

High and low daily water level, from recorder charts

Day	October		November		December	
	High	Low	High	Low	High	Low
1	155.95	156.21	157.31	158.66	158.57	159.87
2	155.95	156.15	157.39	157.65	158.61	158.88
3	156.01	156.24	157.37	158.71	158.68	159.99
4	156.00	156.23	157.48	157.75	.....	.....
5	156.01	156.30	157.52	157.77	.....	.....
6	156.08	156.37	157.60	158.85	158.74	159.02
7	156.17	156.44	157.61	158.92	158.73	160.02
8	156.25	156.52	157.65	158.90	158.81	159.10
9	156.30	156.54	157.68	158.96	158.90	160.23
10	156.32	156.55	157.72	159.01	158.94	159.20
11	156.35	156.60	157.75	159.04	158.98	159.20
12	156.37	156.60	157.80	158.03	159.04	159.29
13	156.42	156.69	157.80	159.05	159.05	160.35
14	156.51	156.73	157.79	158.05	159.06	159.35
15	156.52	156.72	157.87	159.18	159.08	159.34
16	156.57	156.82	157.97	158.25	159.20	159.36
17	156.68	156.98	158.00	158.25	159.24	159.50
18	156.78	157.04	158.06	158.32	.....	.....
19	156.80	157.08	158.10	158.34	.....	.....
20	156.84	157.13	158.02	158.30	159.36	159.58
21	156.90	157.20	158.10	159.39	159.37	159.57
22	156.99	157.23	158.26	158.32	159.37	159.61
23	157.02	157.22	158.24	159.55	159.43	159.79
24	157.06	157.29	158.15	158.41	159.62	159.82
25	157.10	157.38	158.10	159.48	159.58	159.65
26	157.17	157.42	158.25	158.60	159.55	159.79
27	157.23	158.65	158.33	159.58	159.60	160.89
28	157.28	158.58	.....	.....	159.68	159.95
29	157.31	157.57	158.40	159.71	159.74	161.20
30	157.27	157.49	158.42	158.72	159.79	160.05
31	157.18	157.43	.....	.....	159.87	160.13

36. Dawkins Pond Church. Near north line of SE $\frac{1}{4}$  sec. 30, T. 3 N., R. 2 E., in front of church, 70 feet west of U. S. Highway 319, 14.8 miles northeast of Tallahassee. Records available: 1935-37, 1942-44, 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	0.75	Apr. 29	0.27	Aug. 2	0.38	Oct. 31	2.39
31	.95	May 30	1.68	Sept. 2	1.58	Nov. 30	3.54
Feb. 28	.52	July 1	1.59	30	2.26	Dec. 31	6.06
Apr. 1	.53						

66. Bureau of Prisons, U. S. Dept. of Justice. At Federal Correctional Institution, 4 miles east of Tallahassee, in sec. 34, T. 1 N., R. 1 E. Records available: 1945-49.

Daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	132.1	133.4	134.1	135.0	134.3	135.0	135.5	135.6	134.8	135.4	137.3	138.3
2	132.0	133.5	134.1	135.0	134.3	135.1	135.5	135.6	135.2	135.4	137.5	138.4
3	132.0	133.5	134.2	135.0	134.4	135.1	135.5	135.5	135.0	135.3	137.5	138.4
4	132.1	133.4	134.2	135.0	134.4	135.1	135.5	135.4	135.0	135.6	137.5	138.6
5	132.1	133.5	134.2	134.8	134.3	135.1	135.5	135.3	134.8	136.1	137.5	138.8
6	132.2	133.6	134.1	134.9	134.3	135.1	135.5	135.3	134.8	136.2	137.7	138.8
7	132.2	133.6	134.3	134.9	134.3	135.2	135.5	135.1	134.8	136.2	137.6	137.8
8	132.1	133.6	134.3	134.9	134.4	135.2	135.5	135.1	134.8	136.2	137.5	138.9
9	132.1	133.6	134.3	134.9	134.4	135.2	135.4	135.1	134.9	136.2	137.7	138.9
10	132.4	133.6	134.3	134.8	134.4	135.3	135.4	135.1	135.2	136.3	137.6	138.9
11	132.4	133.8	134.3	134.7	134.4	135.3	135.4	135.1	135.1	136.4	137.6	138.9
12	132.4	133.7	134.4	134.6	134.5	135.3	135.4	135.1	135.0	136.5	137.6	139.1
13	132.3	133.7	134.4	134.6	134.6	135.3	135.4	134.9	135.1	136.5	137.7	139.1
14	132.4	133.7	134.4	134.5	134.6	135.2	135.4	135.0	135.3	136.6	137.7	139.2
15	132.5	133.7	134.5	134.5	134.6	135.2	135.5	135.0	135.3	136.6	137.1	139.2

66--Continued.

Daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	132.6	133.7	134.7	134.5	134.6	135.3	135.5	135.0	135.1	136.7	137.0	139.2
17	132.6	133.7	134.6	134.4	134.6	135.3	135.5	135.0	135.5	136.8	137.0	139.2
18	132.7	133.8	134.6	134.3	134.6	135.4	135.5	135.0	135.5	137.1	137.0	139.4
19	132.8	133.8	134.7	134.3	134.7	135.4	135.5	135.0	135.5	136.9	138.1	139.4
20	132.8	133.9	134.8	134.3	134.7	135.5	135.5	135.0	135.3	136.9	138.1	139.2
21	132.9	133.9	134.7	134.3	134.7	135.5	135.4	135.0	135.4	136.9	138.2	139.2
22	132.9	133.9	134.7	134.3	134.7	135.3	135.4	135.0	135.5	136.9	138.2	139.2
23	132.9	133.9	134.7	134.3	134.7	135.4	135.4	135.0	135.4	137.1	138.2	139.2
24	133.0	133.9	134.7	134.3	134.8	135.4	135.4	135.1	135.6	137.0	138.2	139.2
25	133.1	133.9	134.8	134.4	134.8	135.6	135.2	135.0	135.4	137.1	138.1	135.6
26	133.1	133.9	134.8	134.3	134.9	135.6	135.2	135.0	135.5	137.1	138.2	139.6
27	133.1	133.9	134.8	134.3	134.9	135.5	135.2	135.0	135.4	137.1	138.3	139.2
28	133.1	134.0	134.8	134.2	134.9	135.5	135.9	134.9	135.3	137.1	138.4	139.2
29	133.3		134.9	134.3	134.9	135.5	135.8	134.8	135.3	137.1	138.3	139.4
30	133.2		134.9	134.3	135.0	135.5	135.8	134.8	135.4	137.3	138.3	139.3
31	133.3		134.9		.....		135.7	134.8		137.2		139.3

## Manatee County

92. Ray E. Anderson. In waterbury, in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 9, T. 35 S., R. 20 E., on west side of State Highway 675. Records available: 1941-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	38.08	38.16	39.07	39.13	39.60	39.72	40.52	40.58	40.46	40.56	40.74	40.77
2	38.08	38.13	39.10	39.13	39.71	39.86	40.49	40.56	40.51	40.59	40.74	40.81
3	38.08	38.14	39.07	39.11	39.76	39.82	40.55	40.62	40.57	40.62	40.80	40.88
4	38.13	38.17	39.06	39.09	39.82	39.84	40.62	40.69	40.62	40.68	40.85	40.91
5	38.12	38.17	39.05	39.09	39.81	39.82	40.59	40.69	40.62	40.66	40.85	40.93
6	38.14	38.18	39.08	39.11	39.80	39.81	40.65	40.66	40.55	40.62	40.82	40.91
7	38.17	38.21	39.09	39.19	39.78	39.94	40.85	40.89	40.44	40.55	40.87	40.97
8	38.20	38.26	39.15	39.22	39.91	39.94	40.76	40.86	40.45	40.54	40.93	41.04
9	38.25	38.35	39.13	39.22	39.87	39.94	40.73	40.82	40.46	40.58	40.97	41.09
10	38.29	38.37	39.10	39.25	39.84	39.97	40.74	40.86	40.43	40.55	41.02	41.13
11	38.25	38.36	39.21	39.36	39.95	40.15	40.69	40.84	40.40	40.49	40.95	41.05
12	38.23	38.35	39.28	39.39	40.09	40.24	40.53	40.76	40.43	40.51	40.82	40.99
13	38.24	38.34	39.29	39.39	40.14	40.26	40.53	40.66	40.49	40.58	40.81	40.88
14	38.27	38.37	39.23	39.36	40.12	40.26	40.60	40.68	40.52	40.60	40.76	40.82
15	38.32	38.42	39.21	39.31	40.18	40.35	40.58	40.68	40.51	40.59	40.73	40.76
16	38.39	38.44	39.24	39.28	39.13	40.21	40.58	40.66	40.53	40.57	40.70	40.76
17	38.42	38.46	39.27	39.32	40.14	40.22	40.61	40.66	40.55	40.59	40.75	40.82
18	38.47	38.53	39.31	39.32	40.19	40.24	40.56	40.61	40.58	40.60	40.74	40.81
19	38.53	38.59	39.31	39.34	40.11	40.21	40.54	40.59	40.53	40.60	40.64	40.75
20	38.59	38.65	39.34	39.44	40.08	40.11	40.55	40.63	40.49	40.56	40.57	40.67
21	38.65	38.70	39.40	39.49	40.09	40.16	40.60	40.62	40.47	40.54	40.55	40.60
22	38.70	38.77	39.43	39.49	40.16	40.24	40.51	40.60	40.52	40.59	40.38	40.51
23	38.74	38.83	39.39	39.48	40.32	40.40	40.48	40.57	40.52	40.59	40.28	40.39
24	38.77	38.88	39.41	39.50	40.37	40.49	49.43	40.50	40.49	40.59	40.25	40.33
25	38.83	38.94	39.42	39.50	40.42	40.52	40.46	40.62	40.46	40.55	40.25	40.34
26	38.83	38.94	39.40	39.50	40.44	40.52	40.54	40.66	40.48	40.58	40.19	40.30
27	38.80	38.92	39.39	39.50	40.40	40.50	40.49	40.62	40.57	40.65	40.10	40.19
28	38.80	38.92	39.46	39.61	40.43	40.55	40.44	40.54	40.57	40.71	40.00	40.11
29	38.89	39.01			40.53	40.62	40.44	40.52	40.69	40.79	39.94	40.01
30	38.95	39.03			40.56	40.63	40.48	40.54	40.75	40.83	39.89	39.94
31	38.96	39.07			40.50	40.61			40.76	40.80		

92--Continued.

High and low daily water level, from recorder charts												
Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	39.88	39.89	38.79	38.85	38.01	38.11	37.67	37.75	37.93	38.10	38.12	38.29
2	39.85	39.89	38.90	38.88	38.02	38.11	37.65	37.73	38.04	38.12	38.20	38.33
3	39.79	39.86	38.83	38.90	37.97	38.09	37.60	37.70	38.02	38.12	38.28	38.38
4	39.74	39.78	38.85	38.93	37.94	38.02	37.53	37.64	38.06	38.15	38.29	38.39
5	39.65	39.76	38.81	38.92	37.91	38.01	37.50	37.58	38.10	38.20	38.33	38.42
6	39.65	39.73	38.78	38.89	37.91	37.98	37.50	37.59	38.13	38.22	38.32	38.42
7	39.67	39.74	38.74	38.84	37.87	37.95	37.50	37.58	38.14	38.22	38.27	38.38
8	39.68	39.77	38.71	38.79	37.81	37.91	37.52	37.59	38.12	38.22	38.31	38.39
9	39.55	39.72	38.68	38.78	37.78	37.83	37.50	37.60	38.10	38.18	38.40	38.47
10	39.55	39.59	38.69	39.28	37.78	37.82	37.47	37.53	38.11	38.15	38.47	38.52
11	39.45	39.54	38.70	39.26	37.81	37.86	37.43	37.51	38.10	38.15	38.53	38.57
12	39.47	39.55	38.50	38.70	37.79	37.87	37.37	37.45	38.10	38.14	38.57	38.63
13	39.44	39.50	38.46	38.51	37.75	37.82	37.40	37.43	38.05	38.13	38.58	38.64
14	39.40	39.45	38.49	38.50	37.77	37.82	37.38	37.46	37.98	38.05	38.55	38.63
15	39.38	39.41	38.50	38.53	37.79	37.85	37.36	37.43	37.95	38.08	38.52	38.61
16	39.38	39.40	38.49	38.54	37.76	37.84	37.39	37.48	38.08	38.19	38.58	38.78
17	39.36	39.39	38.43	38.51	37.78	37.88	37.47	37.58	38.09	38.19	38.72	38.85
18	39.33	39.40	38.36	38.44	37.81	37.90	37.56	37.66	38.12	38.22	38.75	38.87
19	39.25	39.35	38.24	38.40	37.77	37.88	37.55	37.67	38.12	38.22	38.77	38.88
20	39.23	39.29	38.30	38.41	37.76	37.85	37.59	37.68	38.07	38.20	38.79	38.88
21	39.16	39.27	38.30	38.40	37.76	37.86	37.62	37.75	38.03	38.13	38.78	38.87
22	39.20	39.30	38.32	38.40	37.75	37.85	37.68	37.80	38.11	38.20	38.78	38.83
23	39.21	39.32	38.29	38.39	37.70	37.80	37.73	37.82	38.12	38.22	38.83	38.98
24	39.18	39.35	38.31	38.40	37.68	37.77	37.74	37.83	38.02	38.16	38.98	39.05
25	39.10	39.21	38.30	38.40	37.70	37.76	37.80	37.85	37.90	38.02	38.98	39.03
26	39.09	39.17	38.02	38.34	37.70	37.76	37.85	37.91	38.00	38.12	38.97	39.02
27	39.09	39.18	37.82	38.11	37.63	37.72	37.90	37.95	38.08	38.13	38.98	39.05
28	39.02	39.11	38.11	38.18	37.52	37.65	37.92	37.98	38.08	38.17	39.05	39.14
29	38.95	39.05	38.16	38.20	37.48	37.53	37.97	38.03	38.03	38.12	39.11	39.19
30	38.90	38.98	38.06	38.18	37.53	37.69	37.95	38.05	37.97	38.12	38.15	39.28
31	38.85	38.92	38.02	38.06			37.92	38.00			39.24	39.37

Marion County

5. Florida State Road Department. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 15 S., R. 23 E., about 8 miles east of Ocala at Sharpes Ferry, on east side of Oklawaha River and north side of road. Records available: 1933-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	+12.19	Apr. 9	+10.59	July 9	+10.29	Oct. 8	+13.87
8	11.99	16	10.63	16	10.41	15	14.01
15	11.87	23	10.69	23	10.49	22	13.75
22	11.65	30	10.63	30	10.61	29	13.75
29	11.55	May 7	10.61	Aug. 8	10.57	Nov. 5	13.45
Feb. 5	11.53	14	10.31	13	10.73	12	13.39
12	11.33	21	10.29	20	11.05	19	13.05
19	11.29	28	10.11	27	11.87	26	13.03
26	11.19	June 4	9.93	Sept. 3	12.67	Dec. 3	12.75
Mar. 5	10.99	11	9.79	10	13.25	10	12.63
12	10.77	18	9.73	17	13.45	17	12.45
19	10.61	25	9.63	24	13.65	24	12.17
26	10.51	July 2	9.95	Oct. 1	13.63	31	12.03
Apr. 2	10.51						

Nassau County

2. G. G. Gerbing. In Amelia City, 5.5 miles south of Fernandina, in southeast corner of pumphouse. Records available: 1939-40, 1944-49. Jan. 4, +38.8; Feb. 22, +36.5; Apr. 6, +36.0; May 17, +34.0; June 28, +39.8.

8. Charles Pelot. Near SE corner of NE $\frac{1}{4}$  sec. 1, T. 1 N., R. 28 E., 1.1 miles south of Franklinton, 8.9 miles south of Fernandina. Records available: 1939-40, 1944-49. Jan. 4, +37.4; Feb. 22, +35.5; Apr. 6, +35.4; May 17, +33.6; Aug. 17, +37.1; Oct. 11, +36.4; Dec. 6, +35.6.

12. J. W. Sheffield. 1,600 feet east of NW corner sec. 4, T. 2 N., R. 28 E., about 400 feet east of U. S. Highway 13, on north side of dirt street. Records available: 1939, 1944-49. Jan. 4, +18.4; Feb. 22, +16.2; Apr. 6, +15.3; May 17, +13.8; Aug. 17, +13.9; Oct. 11, +14.1; Dec. 6, +14.5.

22. Jack Woodward. Northeast of Fernandina and about 1,000 feet east of road to Fort Clinch. Records available: 1939-41, 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+2.51	Apr. 6	3.75	June 28	+4.50	Oct. 11	5.16
Feb. 22	1.80	May 17	3.57	Aug. 17	4.70	Dec. 6	8.10

23. Florida Forest and Park Service. About 1,000 feet northwest of end of south jetty to St. Marys Entrance, 2.6 miles northeast of Fernandina. Records available: 1939-42, 1944, 1946-49.

Jan. 4	+29.8	Apr. 6	+26.4	June 28	+29.8	Oct. 11	+25.0
Feb. 22	+27.0	May 17	+25.0	Aug. 17	+26.4	Dec. 6	+24.8

27. Judge Fishler and others. In Fernandina, 200 feet north of Atlantic Blvd.; on east side of North 17th St. Records available: 1939-41, 1944-49. Jan. 4, +7.80; Feb. 22, +4.74; Apr. 6, +3.51; May 17, +2.38; June 28, +13.8.

34. W. L. Hardee. At Hardee Dock, about 150 feet east of Amelia River, 0.3 mile southwest of Fernandina. Records available: 1939-41, 1944-49. Jan. 4, +16.5; Feb. 22, +11.7; Apr. 6, +9.3; May 17, +9.4; Aug. 17, +10.3; Oct. 11, +7.6; Dec. 6, +8.1.

44. Seaboard Air Line Railroad Co. At railroad station, at Yulee, south of pumphouse near elevated tank. Records available: 1934, 1938, 1940, 1944-49. Jan. 4, +16.7; Feb. 22, +18.6; Apr. 6, +18.4; May 17, +17.0; Oct. 11, +17.4; Dec. 6, +17.3.

50. C. J. McKendree. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 4, T. 2 N., R. 26 E., 0.6 mile east of Italia. Records available: 1940-41, 1944-49.

Jan. 4	+33.8	Apr. 6	+34.2	June 28	+32.7	Oct. 13	+34.4
Feb. 22	+34.9	May 17	+32.5	Aug. 17	+37.5	Dec. 6	+33.5

51. Harrold D. Blosser. In Callahan, near SW corner NW $\frac{1}{4}$  sec. 29, T. 2 N., R. 25 E. Records available: 1940-42, 1944-49.

Jan. 4	+39.2	Apr. 6	+39.5	June 28	+37.8	Oct. 13	+38.6
Feb. 22	+39.7	May 17	+38.9	Aug. 17	+39.8	Dec. 6	+38.5

52. Charlie Norris. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 3 N., R. 24 E., on site of former Civilian Conservation Corps camp, about 500 feet east of U. S. Highway 1, 1.4 miles southeast of Hilliard. Records available: 1938, 1940-42, 1944-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	....	0.53	0.55	0.27	0.27	0.50	0.50	....	....
2	....	....	.55	.57	.27	.28	.50	.54	....	....
3	....	....	.56	.57	.28	.30	.54	.54	....	....
4	....	....	.55	.57	.30	.31	.54	.54	....	....
5	0.55	0.56	.52	.55	.31	.31	.54	.54	....	....
6	.52	.55	.50	.52	.29	.31	.54	.54	....	....
7	.52	.52	.48	.50	.28	.29	....	....	....	....
8	.51	.52	.48	.48	.28	.30	....	....	....	....
9	.52	.52	.47	.48	.30	.30	....	....	....	....

52--Continued.

High and low daily water level, from recorder charts										
Day	January		February		March		April		May	
	High	Low	High	Low	High	Low	High	Low	High	Low
10	0.52	0.53	0.46	0.47	0.25	0.29	....	....	....	....
11	.52	.53	.46	.46	.25	.25	....	....	....	....
12	.52	.53	.49	.52	.25	.27	....	....	....	....
13	.49	.52	.52	.54	.27	.29	....	....	....	....
14	.47	.49	.54	.54	.29	.30	....	....	....	....
15	.47	.47	.52	.54	.30	.31	....	....	....	....
16	.47	.47	.50	.52	.31	.37	....	....	....	....
17	.47	.47	.49	.50	.37	.39	....	....	1.12	1.13
18	.47	.47	.50	.50	.39	.39	....	....	1.13	1.16
19	.47	.47	.47	.50	.39	.43	....	....	1.16	1.18
20	.47	.47	.46	.47	.44	.46	....	....	1.18	1.18
21	.47	.51	.45	.46	.46	.47	....	....	1.18	1.18
22	.51	.53	.44	.45	.47	.47	....	....	1.18	1.19
23	.53	.54	.41	.44	.46	.47	....	....	1.19	1.22
24	.54	.56	.39	.41	.47	.48	....	....	....	....
25	.56	.57	.36	.39	.48	.49	....	....	....	....
26	.57	.57	.34	.36	.49	.49	....	....	....	....
27	.56	.57	.29	.34	.49	.49	....	....	....	....
28	.53	.56	.27	.29	.49	.49	....	....	....	....
29	.52	.53			.49	.49	....	....	....	....
30	.52	.54			.49	.49	....	....	....	....
31	.53	.54			.49	.50			....	....

High and low daily water level, from recorder charts								
Day	June		July		August		September	
	High	Low	High	Low	High	Low	High	Low
1	....	....	1.75	1.75	1.79	1.80	1.62	1.65
2	....	....	1.75	1.75	1.78	1.79	1.60	1.62
3	....	....	1.75	1.75	1.78	1.78	1.57	1.60
4	....	....	1.75	1.75	1.78	1.81	....	....
5	....	....	1.75	1.75	1.81	1.83	....	....
6	....	....	1.75	1.75	1.83	1.85	....	....
7	....	....	1.75	1.75	1.85	1.85	....	....
8	....	....	1.75	1.75	1.85	1.85	....	....
9	....	....	1.75	1.75	1.85	1.85	....	....
10	....	....	1.75	1.75	1.85	1.86	....	....
11	....	....	1.76	1.76	1.86	1.87	....	....
12	....	....	1.76	1.76	1.87	1.87	....	....
13	....	....	1.75	1.76	1.85	1.87	....	....
14	....	....	1.75	1.75	1.84	1.85	....	....
15	....	....	1.75	1.75	1.84	1.84	....	....
16	....	....	1.75	1.75	1.84	1.84	....	....
17	....	....	1.75	1.76	1.83	1.84	....	....
18	....	....	1.76	1.77	1.82	1.83	....	....
19	....	....	1.77	1.77	1.80	1.82	....	....
20	....	....	1.77	1.77	1.79	1.80	....	....
21	....	....	1.77	1.78	1.79	1.79	....	....
22	....	....	1.78	1.79	1.79	1.79	....	....
23	....	....	1.79	1.81	1.79	1.79	....	....
24	....	....	1.81	1.82	1.79	1.80	....	....
25	....	....	1.82	1.84	1.80	1.81	....	....
26	....	....	1.84	1.84	1.81	1.82	....	....
27	....	....	1.84	1.84	1.77	1.82	....	....
28	....	....	1.84	1.84	1.72	1.77	....	....
29	1.77	1.77	1.84	1.84	1.69	1.71	....	....
30	1.75	1.76	1.82	1.84	1.67	1.69	....	....
31			1.80	1.82	1.63	1.67		

55. L. R. Church. In O'Neil, about 500 feet southeast of NE. corner sec. 27, T. 2 N., R. 28 E., between Seaboard Air Line Railroad tracks and State Highway 13. Records available: 1940, 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+30.0	Apr. 6	+28.8	June 28	+33.7	Oct. 11	+28.7
Feb. 22	29.0	May 17	27.5	Aug. 17	29.2	Dec. 6	27.5

64. Mrs. D. C. Henderson. In SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 8, T. 3 N., R. 24 E., on south side of dirt street, about 500 feet west of brick schoolhouse, in Hilliard. Records available: 1944-47. No measurement made in 1949.

Okaloosa County

3. Okaloosa County. In Fort Walton, in NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 2 S., R. 24 W., behind schoolhouse, 20 feet east of pumphouse. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	+18.3	Apr. 20	+20.9	July 13	+16.4	Oct. 26	+18.5
Mar. 9	20.8	June 2	16.3	Sept. 14	16.1	Dec. 14	20.6

10. Forest Service, U. S. Dept. of Agriculture. 0.75 mile west of Niceville in SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 6, T. 1 S., R. 22 W., on east side of State Highway 285, in pumphouse. Records available: 1946-49. Jan. 20, 13.83. Measurement discontinued.

19. U. S. Army. At Eglin main field, in building 110, at fire station, near hangar. Records available: 1947-49. Jan. 19, 17.7; Mar. 9, 21.9; Apr. 20, 25.4; July 12, 38.5; Sept. 14, 28.0.

23. U. S. Army. At Eglin auxiliary field 2, 8 miles north of Valparaiso in pumphouse. Records available: 1947-49.

Jan. 21	94.1	Apr. 20	93.3	July 13	96.1	Oct. 26	96.1
Mar. 8	93.9	June 3	95.0	Sept. 14	96.9	Dec. 16	95.1

24. U. S. Army. At Eglin auxiliary field 3, in building 3102, in NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 25, T. 2 N., R. 23 W. Records available: 1948. Measurement discontinued.

25. U. S. Army. At Eglin auxiliary field 3, in building 3204, in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 27, T. 2 N., R. 23 W. Records available: 1947-49.

Jan. 20	108.5	Apr. 20	108.0	July 13	108.2	Oct. 26	108.6
Mar. 10	106.0	June 3	108.1	Sept. 14	106.2	Dec. 14	98.9

26. U. S. Army. At Eglin auxiliary field 4, in building 4102, in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 1 S., R. 23 W. Records available: 1947-49.

Jan. 19	20.0	Apr. 20	23.7	July 12	27.7	Oct. 26	28.7
Mar. 9	25.4	June 2	27.8	Sept. 14	25.4	Dec. 14	27.0

27. U. S. Army. At Eglin auxiliary field 4, in building 4204, in SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 7, T. 1 S., R. 23 W. Records available: 1948-49. Jan. 19, 33.0; Mar. 9, 25.7; Apr. 20, 26.2; July 12, 28.8; Sept. 14, 27.0; Dec. 14, 29.2.

28. U. S. Army. At Eglin auxiliary field 5, in building 5102, in SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 1 N., R. 24 W. Records available: 1948-49. Jan. 20, 101.2; Mar. 9, 100.2; Apr. 20, 98.2; Oct. 26, 100.2; Dec. 14, 100.2.

29. U. S. Army. At Eglin auxiliary field 5, in building 5204, in NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 1 N., R. 24 W. Records available: 1947-49.

Jan. 20	103.8	Apr. 20	102.5	July 13	102.6	Oct. 26	102.3
Mar. 9	102.0	June 3	102.9	Sept. 14	102.5	Dec. 14	102.6

31. U. S. Army. At Eglin auxiliary field 6, in building 6204, in NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 33, T. 2 N., R. 25 W. Records available: 1948-49.

Jan. 20	47.9	Apr. 20	47.7	July 13	50.6	Oct. 26	47.8
Mar. 9	47.5	June 3	47.4	Sept. 14	47.7	Dec. 14	48.4

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32. U. S. Army. At Egin auxiliary field 9, in building 9052, 21 miles south of Milton, in NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, T. 2 S., R. 25 W. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	+31.9	Apr. 20	+32.5	July 13	+31.7	Oct. 26	+30.9
Mar. 9	32.7	June 2	31.7	Sept. 14	31.2	Dec. 14	30.9

34. U. S. Army. At Egin main field at Postle Point, near recreation center on Weekly Bayou, in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 19, T. 1 S., R. 22 W. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	+29.6	Apr. 20	+27.5	July 12	+26.0	Oct. 29	+25.2
Mar. 9	28.0	June 2	24.5	Sept. 14	24.5	Dec. 14	26.6

## Okeechobee County

2. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 33, T. 35 S., R. 33 E., on State Highway 66, 1 mile west of Bassinger. Drilled observation well, diameter 6 inches, depth 21 feet. Records available: 1949.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Mar. 4	5.87	6.07	July 1	6.11	7.05
11	6.07	6.27	8	5.97	6.11
18	6.27	6.46	15	4.73	5.97
25	6.46	6.63	22	3.73	4.94
Apr. 1	6.63	6.87	29	3.73	4.03
8	6.87	7.00	Aug. 5	3.32	4.17
15	7.00	7.14	12	3.34	3.55
22	7.14	7.29	19	3.02	3.34
29	7.29	7.45	26	3.24	3.67
May 6	7.45	7.59	Sept. 2	.32	3.67
13	7.59	7.72	9	.83	2.17
20	7.72	7.82	16	1.00	2.37
27	7.82	7.95	23	1.14	2.39
June 3	7.95	8.09	30	....	2.10
10	8.09	8.20	Nov. 4	....	3.12
17	8.20	8.29	11	3.12	3.29
24	7.05	8.29	18	3.22	....

3. U. S. Geol. Survey. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 23, T. 34 S., R. 35 E., on State Highway 15, about 2 miles south of Fort Drum. Drilled observation well, diameter 6 inches, depth 22 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Nov. 16, 1948	2.73	2.85	July 15, 1949	2.56	3.11
25	2.85	3.03	22	2.10	2.90
Dec. 2	3.03	3.13	Sept. 2	.18	1.80
9	3.13	3.28	9	.66	1.83
16	3.28	3.50	16	.80	1.87
23	3.50	3.60	23	1.81	2.18
30	3.58	3.73	30	.45	2.23
Jan. 7, 1949	3.68	3.85	Oct. 7	.57	1.38
14	3.85	3.98	14	.73	1.56
21	3.93	4.08	21	1.56	2.11
28	3.94	4.14	28	1.47	2.24
Feb. 4	4.14	4.25	Nov. 4	1.50	2.29
11	4.25	4.39	11	2.21	2.49
18	4.39	4.52	18	2.04	2.57
25	4.52	4.65	25	2.57	2.73
Mar. 4	4.65	4.77	Dec. 2	2.64	2.86
11	4.77	4.90	9	2.86	3.01
18	4.90	5.03	16	3.01	3.15
25	5.03	5.14	23	3.15	3.19
Apr. 1	5.14	5.25	30	2.60	3.20
July 8	2.62	3.31			

4. U. S. Geol. Survey. ~~1W4NE4~~ sec. 19, T. 37 S., R. 34 E. on State Highway 70, 8.4 miles west of Okeechobee. Drilled observation well, diameter 6 inches, depth 21 feet. Records available: 1949.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Apr. 8	....	6.59	Aug. 26	2.50	3.64
15	6.50	6.66	Sept. 2	1.35	2.74
22	6.58	6.68	9	2.62	3.54
29	6.68	6.79	16	1.51	3.27
May 6	6.79	6.85	23	3.21	3.63
13	6.78	6.91	30	1.46	3.77
20	6.74	6.92	Oct. 7	2.37	3.43
27	6.92	7.05	14	2.91	3.63
June 3	7.05	7.18	21	3.63	3.99
10	7.09	7.27	28	3.74	4.12
17	6.19	7.12	Nov. 4	3.97	4.36
24	5.52	6.19	11	4.56	4.51
July 1	5.15	5.52	18	3.93	4.56
8	5.06	5.70	25	4.39	4.65
15	4.73	5.10	Dec. 2	4.65	4.86
22	4.30	5.00	9	4.86	5.03
29	4.00	4.68	16	5.03	5.15
Aug. 5	3.65	4.37	23	5.15	5.24
12	3.02	4.00	30	4.36	5.25
19	3.05	3.97			

Orange County

47. Orange County. Near SE. corner ~~1W4NE4~~ sec. 26, T. 22 S., R. 28 E., at edge of sink, on west side of State Highway 413, about 1 mile northwest of Orlo Vista. Records available: 1930-33, 1943-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	1.63	1.67	2.74	2.88	3.52	5.68	4.45	4.55	5.01	5.03	5.49	5.83
2	1.68	1.71	2.76	2.91	3.60	3.72	4.40	4.56	5.02	5.23	5.49	5.58
3	1.70	1.75	2.74	2.81	3.66	3.78	4.40	4.41	5.01	5.10	5.57	5.60
4	1.75	1.79	2.73	2.82	3.69	3.87	4.42	4.44	5.00	5.01	5.60	5.64
5	1.79	1.80	2.75	2.82	3.73	3.80	4.34	4.42	5.00	5.01	5.65	5.69
6	1.80	1.82	2.73	2.76	3.72	3.75	4.35	4.43	4.95	4.97	5.68	5.71
7	1.82	1.89	2.74	2.80	3.70	3.91	4.42	4.45	4.94	4.99	5.71	5.78
8	1.89	1.95	2.80	2.84	3.84	3.94	4.40	4.42	4.98	5.08	5.78	5.81
9	1.95	2.01	2.81	2.85	3.83	3.98	4.41	4.50	5.05	5.10	5.83	5.89
10	1.99	2.03	2.81	2.93	3.82	3.98	4.48	4.53	5.08	5.10	5.80	5.88
11	2.00	2.05	2.92	3.08	3.90	4.07	4.49	4.53	5.09	5.15	5.77	5.82
12	2.00	2.06	3.00	3.07	3.99	4.10	4.48	4.51	5.16	5.21	5.77	5.79
13	2.02	2.11	3.01	3.08	4.01	4.08	4.48	4.55	5.21	5.29	5.78	5.80
14	2.09	2.17	3.03	3.19	4.00	4.11	4.56	4.62	5.30	5.35	5.75	5.78
15	2.16	2.21	3.08	3.20	3.99	4.18	4.62	4.69	5.31	5.32	5.75	5.76
16	2.20	2.24	3.12	3.20	4.13	4.22	4.63	4.72	5.31	5.39	5.74	5.79
17	2.24	2.26	3.19	3.29	4.11	4.26	4.70	4.71	5.39	5.47	5.77	5.80
18	2.26	2.30	3.22	3.25	4.10	4.27	4.69	4.71	5.42	5.47	5.77	5.79
19	2.30	2.34	3.20	3.24	4.17	4.30	4.70	4.81	5.45	5.60	5.76	5.78
20	2.34	2.39	3.23	3.28	4.20	4.21	4.79	4.89	5.48	5.50	5.78	5.79
21	2.39	2.41	3.28	3.38	4.19	4.30	4.82	4.90	5.49	5.53	5.69	5.80
22	2.41	2.45	3.30	3.34	4.19	4.28	4.86	4.94	5.53	5.55	5.67	5.70
23	2.44	2.48	3.30	3.34	4.12	4.30	4.84	4.90	5.55	5.70	5.63	5.67
24	2.46	2.51	3.32	3.38	4.25	4.35	4.87	4.90	5.60	5.69	5.64	5.70
25	2.50	2.54	3.34	3.40	4.28	4.34	4.90	5.05	5.60	5.71	5.68	5.74
26	2.51	2.61	3.36	3.42	4.31	4.34	5.01	5.19	5.65	5.79	5.59	5.68
27	2.54	2.67	3.36	3.40	4.29	4.33	5.05	5.26	5.71	5.87	5.57	5.66
28	2.57	2.69	3.40	3.53	4.32	4.41	5.07	5.37	5.79	5.89	5.52	5.58
29	2.63	2.77			4.40	4.46	5.12	5.38	5.78	5.80	5.52	5.53
30	2.63	2.72			4.41	4.48	5.03	5.20	5.79	5.98	5.43	5.52
31	2.62	2.81			4.44	4.51			5.80	5.94		



47--Continued.

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	5.35	5.43	5.29	5.30	3.30	3.43	+0.01	0.64	....	....	3.42	3.49
2	5.36	5.37	5.29	5.30	3.43	3.52	.65	1.04	....	....	3.48	3.56
3	5.37	5.41	5.28	5.30	3.52	3.62	....	....	....	....	3.53	3.58
4	5.41	5.44	5.30	5.32	3.62	3.70	....	....	....	....	3.54	3.59
5	5.41	5.42	5.32	5.35	3.69	3.78	....	....	....	....	3.57	3.61
6	5.40	5.43	5.34	5.36	3.78	3.84	....	....	....	....	3.58	3.61
7	5.35	5.40	5.35	5.39	3.84	3.89	....	....	....	....	3.57	3.60
8	5.28	5.35	5.38	5.40	3.89	3.91	....	....	2.94	2.97	....	....
9	5.24	5.29	5.40	5.42	3.90	3.94	....	....	2.94	2.96	....	....
10	5.22	5.28	5.44	5.48	3.95	3.99	....	....	2.96	3.01	3.71	3.75
11	5.23	5.28	5.41	5.48	3.93	4.01	....	....	3.01	3.02	3.75	3.78
12	5.29	5.31	5.31	5.41	3.89	3.93	2.10	2.13	....	....	3.78	3.80
13	5.31	5.36	5.29	5.31	3.86	3.88	2.14	2.24	....	....	3.79	3.80
14	5.32	5.34	5.28	5.29	3.88	3.91	2.24	2.31	....	....	3.76	3.82
15	5.34	5.38	5.29	5.31	3.91	3.92	2.31	2.37	....	....	3.78	3.83
16	5.29	5.38	5.30	5.31	3.92	3.95	2.37	2.43	....	....	3.83	3.90
17	5.22	5.28	5.31	5.32	3.91	4.00	....	....	....	....	3.90	3.93
18	5.20	5.26	5.30	5.32	3.95	3.99	....	....	....	....	3.91	3.96
19	5.15	5.20	5.31	5.36	3.95	3.99	....	....	....	....	3.93	3.97
20	5.15	5.20	5.36	5.41	3.95	4.00	....	....	....	....	3.94	3.98
21	5.20	5.25	5.26	5.43	3.97	4.00	....	....	....	....	3.97	3.99
22	5.24	5.30	5.21	5.27	3.82	3.99	....	....	3.34	3.40	3.97	3.99
23	5.30	5.35	5.19	5.22	3.68	3.82	....	....	3.39	3.40	3.99	4.07
24	5.33	5.38	5.21	5.31	3.68	3.72	....	....	3.37	3.40	4.07	4.10
25	5.38	5.39	5.30	5.38	3.72	3.74	....	....	3.25	3.37	3.70	4.10
26	5.38	5.43	5.24	5.38	3.43	3.74	....	....	3.34	3.40	3.09	3.70
27	5.38	5.42	2.45	5.24	2.75	3.44	....	....	3.39	3.41	3.14	3.38
28	5.34	5.38	1.55	2.45	2.07	2.74	....	....	3.40	3.42	3.38	3.50
29	5.33	5.34	1.83	2.70	+6.1	2.06	....	....	3.38	3.42	3.50	3.57
30	5.32	5.34	3.69	3.08	+6.7	+1.2	....	....	3.37	3.42	3.57	3.67
31	5.30	5.33	3.08	3.30	....	....	....	....	....	....	3.67	3.76

47B. U. S. Geol. Survey. Near SE. corner NE $\frac{1}{4}$  sec. 26, T. 22 S., R. 28 E., at edge of sink, on west side of State Highway 413, about 1 mile northwest of Orlo Vista, 10 feet south of well 47. Records available: 1948-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	1.55	1.50	0.39	0.35	+0.59	+0.63	+1.70	+1.73	....	....	+3.18	+3.31
2	1.50	1.46	.35	.33	.63	.68	1.73	1.75	....	....	3.18	3.18
3	1.46	1.43	.33	.31	.68	.72	1.75	1.76	....	....	3.18	3.18
4	1.43	1.40	.31	.27	.72	.76	1.76	1.77	....	....	3.18	3.24
5	1.40	1.36	.27	.25	.76	.80	1.75	1.77	....	....	3.24	3.30
6	1.36	1.33	.25	.24	.80	.82	1.75	1.77	....	+2.63	3.30	3.32
7	....	1.29	.24	.23	.82	.87	1.77	1.82	+2.63	2.65	3.32	3.35
8	1.29	1.25	.23	.23	.87	.89	1.82	1.84	2.65	2.69	3.35	3.38
9	1.25	1.20	.23	.23	.89	.91	1.84	1.87	2.69	2.71	....	....
10	1.20	1.16	.23	.21	.91	.97	1.87	1.88	2.71	2.74	....	....
11	1.16	1.14	.21	.20	.97	1.02	1.88	1.91	2.74	2.75	....	....
12	1.14	1.10	.20	.04	1.02	1.08	1.91	1.94	2.75	2.81	....	....
13	1.10	1.07	.04	.03	1.08	1.03	1.94	1.97	2.81	2.82	....	....
14	1.07	1.03	.03	+0.03	1.08	1.12	1.97	2.00	2.82	2.86	....	....
15	1.03	.99	+0.03	.06	1.12	1.16	2.00	2.03	2.86	2.87	....	....
16	.99	.95	.08	.09	....	....	2.03	2.06	2.87	2.91	....	....
17	.95	.92	.09	.15	....	....	2.06	2.09	2.91	2.94	3.52	3.57
18	.92	.88	.15	.22	....	....	2.09	2.12	2.94	2.96	3.57	3.57
19	.88	.83	.22	.24	....	....	2.12	2.16	2.96	2.99	3.57	3.59
20	.83	.80	.24	.29	....	....	2.16	2.19	2.99	3.04	3.59	3.62
21	.80	.76	.29	.33	....	....	2.19	2.23	3.04	3.05	3.47	3.64
22	.76	.72	.33	.36	....	1.42	2.23	2.26	3.05	3.09	3.47	3.47
23	.72	.70	.36	.40	1.42	1.46	2.26	2.29	3.07	3.09	3.47	3.51
24	.70	.65	.40	.46	1.46	1.46	2.29	2.30	3.07	3.11	3.51	3.54

47B--Continued.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
25	0.65	0.63	+0.46	+0.48	+1.46	+1.50	+2.31	+2.35	+3.11	+3.11	+3.50	+3.57
26	.63	.58	.48	.52	1.50	1.54	2.35	2.39	....	....	3.50	3.52
27	.58	.54	.52	.54	1.54	1.58	2.39	2.42	....	....	3.52	3.55
28	.54	.49	.54	.59	1.58	1.61	2.42	2.45	....	....	3.52	3.54
29	.49	.47			1.61	1.66	2.45	2.49	....	....	3.54	3.56
30	.47	.42			1.66	1.68	....	....	....	3.29	3.52	3.57
31	.42	.39			1.68	1.70			3.29	3.31		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	+3.51	+3.53	+3.72	+3.74	+2.82	....	+1.92	+2.01	+1.67	+1.68	+2.06	+2.08
2	3.51	3.52	3.72	3.73	2.79	+2.82	1.88	1.92	1.67	1.67	2.08	2.10
3	3.52	3.55	3.72	3.73	2.77	2.79	1.85	1.88	1.67	1.68	2.10	2.13
4	3.55	3.56	3.73	3.75	2.73	2.77	1.82	1.85	1.68	1.69	2.13	2.15
5	3.56	3.56	3.75	3.75	2.71	2.73	1.81	1.82	1.69	1.71	2.15	2.17
6	3.55	3.57	3.75	3.76	2.70	2.71	1.80	1.81	1.71	1.72	2.17	2.18
7	3.55	3.57	3.76	3.77	2.68	2.70	1.79	1.80	1.72	1.74	2.18	2.19
8	3.57	3.57	3.77	3.80	2.68	2.68	1.75	1.79	1.74	1.75	2.19	2.21
9	3.57	3.59	3.80	3.80	2.68	2.68	1.72	1.75	1.75	1.75	2.21	2.24
10	3.59	3.59	3.80	3.82	2.64	2.68	1.71	1.72	1.75	1.75	2.24	2.25
11	3.59	3.60	3.80	3.82	2.60	2.64	1.70	1.71	1.75	1.75	2.25	2.26
12	3.60	3.63	3.77	3.82	2.59	2.59	1.69	1.70	1.75	1.78	2.26	2.27
13	3.61	3.63	3.77	3.79	2.58	2.59	1.68	1.69	1.78	1.79	2.27	2.29
14	3.61	3.64	3.79	3.80	2.58	2.58	1.68	1.68	1.79	1.79	2.29	2.30
15	3.64	3.65	3.80	3.81	2.58	2.58	1.68	1.68	1.79	1.79	2.30	2.30
16	3.62	3.65	3.81	3.83	2.58	2.58	1.68	1.68	1.79	1.82	2.30	2.34
17	3.62	3.62	3.83	3.85	2.56	2.58	1.68	1.68	1.82	1.86	2.34	2.35
18	3.62	3.63	3.85	3.85	2.56	2.56	1.68	1.68	1.86	1.87	2.35	2.37
19	3.63	3.64	3.85	3.86	2.56	2.56	1.68	1.68	1.87	1.89	2.37	2.38
20	3.64	3.65	3.86	3.86	2.56	2.56	1.68	1.69	1.89	1.91	2.38	2.40
21	3.65	3.65	3.79	3.87	2.56	2.56	1.69	1.70	1.91	1.93	2.40	2.42
22	3.65	3.66	3.79	3.80	2.56	2.56	1.70	1.70	1.93	1.97	2.42	2.43
23	3.66	3.67	3.80	3.80	2.55	2.56	1.70	1.70	1.97	1.98	2.43	2.46
24	3.67	3.68	3.80	3.85	2.54	2.55	1.70	1.71	1.98	2.00	2.46	2.47
25	3.68	3.69	3.85	3.86	2.53	2.54	1.71	1.71	1.96	2.00	2.28	2.47
26	3.69	3.70	3.87	3.86	2.49	2.53	1.71	1.71	1.97	1.99	2.25	2.28
27	3.69	3.70	3.30	3.87	2.42	2.49	1.71	1.71	1.99	2.01	2.24	2.25
28	3.69	3.71	....	3.30	2.32	2.42	1.70	1.71	2.01	2.05	2.24	2.24
29	3.71	3.75	....	....	2.12	2.32	1.70	1.70	2.05	2.05	2.24	2.27
30	3.75	3.75	....	....	2.01	2.12	1.70	1.70	2.05	2.06	2.27	2.30
31	3.73	3.75	....	....			1.68	1.70			....	....

47C. U. S. Geol. Survey. About 50 feet north of State Highway 50 and 10 feet west of State Highway 413, in edge of an orange grove, 1 mile northwest of Orlo Vista, in NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 26, T. 22 S., R. 28 E. Records available: 1948-49.

High and low daily water level, from recorder charts

Day	March		April		May		June		July	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	....	32.86	32.87	33.54	33.56	34.20	34.22	34.80	34.82
2	....	....	32.87	32.89	33.56	33.58	34.22	34.25	34.82	34.85
3	....	....	32.89	32.90	33.58	33.60	34.25	34.27	34.85	34.86
4	....	....	32.90	32.92	33.60	33.63	34.27	34.29	34.86	34.87
5	....	....	32.92	32.96	33.63	33.65	34.29	34.30	34.87	34.90
6	....	....	32.96	32.99	33.65	33.68	34.30	34.32	34.90	34.91
7	....	....	32.99	33.02	33.68	33.70	34.32	34.35	34.91	34.92
8	....	....	33.02	33.05	33.70	33.72	34.35	34.37	34.92	34.95
9	....	....	33.05	33.06	33.72	33.75	34.37	34.40	34.95	34.97
10	....	....	33.06	33.09	33.75	33.76	34.40	34.42	34.97	34.97
11	....	....	33.09	33.10	33.76	33.78	34.42	34.44	34.98	35.00
12	....	....	33.10	33.11	33.78	33.80	34.44	34.45	35.00	35.02

47C--Continued.

High and low daily water level, from recorder charts										
Day	March		April		May		June		July	
	High	Low	High	Low	High	Low	High	Low	High	Low
13	.....	.....	33.11	33.14	33.80	33.63	34.45	34.48	35.02	35.04
14	.....	.....	33.14	33.16	33.83	33.85	34.48	34.50	35.04	35.05
15	.....	.....	33.16	33.20	33.85	33.87	34.50	34.50	35.05	35.07
16	.....	.....	33.20	33.22	33.87	33.90	34.50	34.52	35.07	35.09
17	.....	.....	33.22	33.25	33.90	33.92	34.52	34.55	35.09	35.11
18	.....	.....	33.25	33.27	33.92	33.95	34.55	34.57	35.11	35.13
19	.....	.....	33.27	33.29	33.95	33.96	34.57	34.59	35.13	35.15
20	.....	.....	33.29	33.30	33.96	33.98	34.59	34.61	35.15	35.16
21	.....	.....	33.30	33.34	33.98	34.00	34.61	34.63	35.16	35.18
22	.....	.....	33.34	33.36	34.00	34.02	34.63	34.65	35.18	35.20
23	.....	.....	33.36	33.38	34.02	34.05	34.65	34.67	35.20	35.22
24	.....	.....	33.38	33.40	34.05	34.06	34.67	34.69	35.22	35.24
25	32.71	32.74	33.40	33.43	34.06	34.09	34.69	34.71	35.24	35.25
26	32.74	32.76	33.43	33.46	34.09	34.10	34.71	34.73	35.25	35.27
27	32.76	32.77	33.46	33.48	34.10	34.13	34.73	34.75	35.27	35.29
28	32.77	32.80	33.48	33.50	34.13	34.15	34.75	34.77	35.29	35.30
29	32.80	32.82	33.50	33.52	34.15	34.17	34.77	34.79	35.30	35.33
30	32.82	32.84	33.52	33.54	34.17	34.19	34.79	34.80	35.33	35.35
31	32.84	32.86			34.19	34.20			35.35	35.36

High and low daily water level, from recorder charts										
Day	August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	35.36	35.37	35.88	35.89	36.20	36.21	36.42	36.43	36.67	36.68
2	35.37	35.40	35.89	35.89	36.21	36.22	36.43	36.44	36.68	36.69
3	35.40	35.41	35.89	35.90	36.22	36.23	36.44	36.45	36.69	36.70
4	35.41	35.43	35.90	35.90	36.23	36.24	36.45	36.45	36.70	36.70
5	35.43	35.44	35.90	35.90	36.24	36.25	36.45	36.46	36.70	36.71
6	35.44	35.47	35.90	35.90	36.25	36.25	36.46	36.46	36.71	36.72
7	35.47	35.48	35.90	35.91	36.25	36.25	36.47	36.49	36.72	36.73
8	35.48	35.50	35.90	35.92	36.25	36.26	36.49	36.49	36.73	36.74
9	35.50	35.52	35.92	35.92	36.26	35.27	36.49	36.50	36.74	36.75
10	35.52	35.53	35.92	35.96	36.27	36.27	36.50	36.50	36.75	36.75
11	35.53	35.54	35.96	35.97	36.27	36.28	36.50	36.50	37.75	36.76
12	35.54	35.57	35.97	35.99	36.28	36.29	36.50	36.52	36.76	36.77
13	35.57	35.59	35.99	36.00	36.29	36.29	36.52	36.52	36.77	36.77
14	35.59	35.60	36.00	36.02	36.30	36.30	36.52	36.53	36.78	36.78
15	35.60	35.62	36.02	36.04	36.30	36.30	36.53	36.54	36.78	36.79
16	35.62	35.65	36.04	36.05	36.30	36.30	36.54	36.55	36.79	36.80
17	35.65	35.66	36.05	36.06	36.30	36.31	36.55	36.56	36.80	36.80
18	35.66	35.67	36.06	36.07	36.31	36.32	36.56	36.56	36.80	36.82
19	35.67	35.68	36.07	36.09	36.32	36.33	36.56	36.57	36.82	36.82
20	36.68	36.70	36.08	36.10	36.33	36.34	36.57	36.58	36.82	36.84
21	35.70	35.71	36.10	36.10	36.34	36.35	36.58	36.59	36.84	36.85
22	35.70	35.73	36.10	36.11	36.35	36.36	36.59	36.60	36.85	36.85
23	35.73	35.75	36.11	36.11	36.36	36.37	36.60	36.61	36.85	36.86
24	35.75	35.77	36.11	36.14	36.37	36.38	36.61	36.62	36.86	36.87
25	35.77	35.79	36.15	36.15	36.38	36.39	36.62	36.62	36.87	36.88
26	35.79	35.81	36.15	36.16	36.39	36.40	36.62	36.63	36.88	36.88
27	35.81	35.82	36.16	36.17	36.40	36.40	36.63	36.64	36.88	36.90
28	36.82	36.85	36.17	36.18	36.40	36.41	36.64	36.65	36.90	36.90
29	35.85	35.85	36.18	36.19	36.41	36.41	36.65	36.66	36.90	36.91
30	35.85	35.87	36.19	36.20	36.41	36.42	36.66	36.67	36.91	36.92
31	35.87	35.88			36.42	36.42			36.92	36.93

Osceola County

179. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 27, T. 27 S., R. 34 E., U. S. Highway 192, near Dear Park. Drilled observation well, diameter 6 inches, depth 17.6 feet. Records available: 1949.

179--Continued.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Apr. 8	5.19	5.39	Aug. 26	2.94	3.18
15	4.80	5.26	Sept. 2	1.36	3.14
22	4.03	4.80	9	2.31	2.67
29	4.20	4.57	16	1.97	2.36
May 6	4.57	4.87	23	1.89	2.40
13	4.87	5.11	30	.82	2.22
20	5.11	5.35	Oct. 7	1.88	2.27
27	5.35	5.56	14	1.88	2.30
June 3	5.53	5.66	21	2.30	2.57
10	5.33	5.76	28	2.36	2.70
17	3.94	5.33	Nov. 4	2.35	2.85
24	3.04	3.94	11	2.85	3.02
July 1	2.71	3.44	18	2.92	3.13
8	3.15	3.66	25	3.13	3.33
15	2.50	3.54	Dec. 2	3.33	3.53
22	2.24	2.93	9	3.53	3.71
29	2.54	3.10	16	3.71	3.92
Aug. 5	1.73	3.28	23	3.92	4.06
12	2.30	2.68	30	2.59	4.08
19	2.50	2.94			

180. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 27 S., R. 32 E., on U. S. Highway 192, 0.3 mile east of State Highway 15 at Holopaw. Drilled observation well, diameter 6 inches, depth 12 feet. Records available: 1949.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
May 13	3.78	4.06	Sept. 9	1.72	2.32
20	4.06	4.27	16	1.50	2.37
27	4.27	4.53	23	1.12	2.62
June 3	4.53	4.73	30	.61	....
10	4.68	4.80	Oct. 7	....	1.72
17	3.28	4.68	14	.66	1.76
24	2.53	3.28	21	1.50	2.19
July 1	1.16	2.53	28	1.15	2.40
8	.94	2.35	Nov. 4	.72	1.90
15	1.15	2.06	11	1.62	2.08
22	1.41	2.21	18	1.09	2.09
29	1.26	2.43	25	2.03	2.39
Aug. 5	.71	2.12	Dec. 2	2.39	2.61
12	1.44	2.31	9	2.61	2.79
19	1.08	2.08	16	2.79	2.95
26	.90	2.03	23	2.93	3.08
Sept. 2	.18	1.88	30	.57	3.04

181. U. S. Geol. Survey. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, T. 26 S., R. 31 E., on U. S. Highway 192, 9.3 miles southeast of St. Cloud. Drilled observation well, diameter 6 inches, depth 15 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Nov. 11, 1948	....	2.38	Jan. 21, 1949	3.70	3.84
18	2.38	2.59	28	3.84	3.97
25	2.59	2.78	Feb. 4	3.97	4.08
Dec. 2	2.69	2.88	11	4.08	4.24
9	2.69	2.97	18	4.24	4.40
16	2.84	3.07	25	4.40	4.55
23	3.07	3.25	Mar. 4	4.55	4.75
30	3.25	3.35	11	4.75	4.94
Jan. 7, 1949	3.35	3.54	18	4.94	5.09
14	3.54	3.70	25	5.09	5.24

181--Continued.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Apr. 1, 1949	5.24	5.38	Aug 19, 1949	3.48	3.70
8	5.22	5.33	26	3.32	3.64
15	5.27	5.47	Sept. 2	.61	3.37
22	4.45	5.38	9	1.86	2.22
29	4.65	5.05	16	1.93	2.22
May 6	4.13	5.12	23	1.40	2.22
13	4.16	4.37	30	....	1.80
20	4.30	4.75	Oct. 7	.33	1.15
27	4.75	5.15	14	.94	1.43
June 3	5.15	5.30	21	1.43	1.87
10	4.30	5.50	28	1.35	2.05
17	3.65	4.30	Nov. 4	1.45	2.04
24	3.11	3.88	11	1.92	2.20
July 1	2.56	3.16	18	2.00	2.23
8	2.64	3.10	25	2.23	2.44
15	2.73	3.30	Dec. 2	2.44	2.65
22	3.17	3.43	9	2.65	2.85
29	3.43	3.67	16	2.85	3.04
Aug. 5	2.89	3.75	23	3.04	3.15
12	3.03	3.54			

182. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 16, T. 31 S., R. 32 E., on State Highway 60, 4.3 miles east of Kissimmee River bridge. Drilled observation well, diameter 6 inches, depth 23 feet. Records available: 1949.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Apr. 8	4.17	4.72	Aug. 26	2.52	3.08
15	4.17	4.40	Sept. 2	.45	2.87
22	4.40	4.69	9	1.93	2.52
29	4.69	4.82	16	2.35	2.66
May 6	4.35	4.83	23	1.43	2.77
13	4.35	4.63	30	.58	1.93
20	4.63	4.91	Oct. 7	.72	2.03
27	4.91	5.05	14	2.03	2.46
June 3	5.05	5.20	21	2.46	2.90
10	5.20	5.26	28	2.90	3.17
17	5.26	5.32	Nov. 4	2.94	3.35
24	4.36	5.31	11	3.35	3.52
July 1	4.28	4.36	18	2.63	3.57
8	3.90	4.33	25	2.94	3.36
15	3.58	3.93	Dec. 2	3.36	3.58
22	3.40	3.71	9	3.58	3.73
29	2.01	3.70	16	3.73	3.88
Aug. 5	2.11	2.73	23	3.88	3.97
12	2.23	3.28	30	3.63	3.99
19	2.03	2.93			

183. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 3, T. 31 S., R. 33 E., 5.4 miles south of Kenansville, 5.3 miles north of State Highway 60 at intersection with "Old Pea Vine Trail." Drilled observation well, diameter 6 inches, depth 27 feet. Records available: 1948-49.

High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Dec. 23, 1948	....	2.36	Jan. 28, 1949	2.55	2.71
30	2.36	2.40	Feb. 4	2.71	2.75
Jan. 7, 1949	2.40	2.46	11	2.72	2.82
14	2.46	2.54	18	2.82	2.92
21	2.54	2.64	25	2.54	2.85

183--Continued.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Mar. 4, 1949	2.69	2.97	Aug. 5, 1949	+0.20	1.27
11	2.97	3.10	12	+0.09	1.69
18	3.10	3.20	19	+0.04	1.61
25	3.20	3.27	26	+0.22	1.77
Apr. 1	2.49	3.29	Sept. 2	+0.36	1.77
8	1.07	2.59	9	.20	1.67
15	1.68	2.20	16	1.42	2.03
22	1.92	2.46	23	1.76	2.20
29	2.46	2.77	30	+0.37	2.15
May 6	2.77	2.97	Oct. 7	+0.15	1.82
13	2.97	3.19	14	.07	1.30
20	3.19	3.42	21	1.30	1.82
27	3.42	3.65	28	1.82	2.04
June 3	3.65	3.79	Nov. 4	1.81	.32
10	1.52	3.87	11	2.28	2.47
17	1.35	2.07	18	1.47	2.51
24	.35	1.82	25	1.88	2.28
July 1	.02	1.19	Dec. 2	2.28	2.50
8	+0.23	1.52	9	2.50	2.67
15	+0.16	.87	16	2.67	2.80
22	+0.20	1.16	23	2.80	2.86
29	+0.20	1.49	30	1.80	2.85

## Palm Beach County

88. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 28, T. 44 S., R. 43 E. Records available: 1944-49.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Jan. 7	5.37	5.64	July 15	7.94	8.26
14	5.64	5.94	22	7.79	8.31
21	5.94	6.22	29	7.81	7.94
28	6.22	6.48	Aug. 5	7.94	8.16
Feb. 4	6.48	6.72	12	8.16	8.26
11	6.72	7.02	19	8.25	8.42
18	7.02	7.22	26	7.17	8.51
25	7.22	7.43	Sept. 2	6.21	7.17
Mar. 4	7.43	7.71	9	6.29	6.52
11	7.71	7.92	16	6.52	6.81
18	7.92	8.11	23	6.81	7.01
25	8.02	8.20	30	6.26	7.06
Apr. 1	8.20	8.35	Oct. 7	6.12	6.28
8	8.35	8.52	14	6.28	6.61
15	8.52	8.60	21	6.61	6.91
22	8.40	8.68	28	5.71	7.06
29	8.68	8.81	Nov. 4	6.01	6.32
May 6	8.78	8.87	11	4.92	6.54
13	8.87	8.95	18	5.38	5.69
20	7.76	8.97	25	5.69	6.04
27	7.96	8.29	Dec. 2	6.04	6.34
June 3	8.29	8.56	9	6.34	6.59
10	8.56	8.69	16	6.59	6.82
17	8.29	8.71	23	6.82	7.07
July 8	7.82	7.94	30	4.92	7.09

99. U. S. Geol. Survey. SW  $\frac{1}{4}$  sec. 4, T. 44 S., R. 43 E., on corner of Garden Ave. and Bradley St. Drilled observation well, diameter 6 inches, depth 18.3 feet. Records available: 1948-49.

## High and low weekly water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
July 22, 1948	6.03	6.38	Apr. 15, 1949	8.31	8.48
29	6.38	6.63	22	8.23	8.48
Aug. 5	6.63	6.83	29	8.48	8.55
12	6.35	7.01	May 6	8.55	8.63
19	6.24	6.49	13	8.63	8.70
26	6.09	6.35	20	8.28	8.71
Sept. 2	5.48	6.11	27	8.38	8.53
9	5.59	5.91	June 3	8.47	8.63
16	5.70	6.08	10	8.60	8.71
23	3.42	5.70	17	8.06	8.76
30	3.13	3.53	24	8.03	8.11
Oct. 7	.37	3.34	July 1	8.02	8.16
14	1.00	1.98	8	8.16	8.40
21	1.64	2.18	15	8.40	8.58
28	2.18	2.59	22	8.23	8.62
Nov. 4	2.59	3.02	29	8.45	8.63
11	3.02	3.44	Aug. 5	8.52	8.66
18	3.44	3.84	12	8.65	8.71
25	3.84	4.21	19	8.66	8.76
Dec. 2	4.21	4.53	26	7.73	8.78
9	4.53	4.93	Sept. 2	6.14	7.73
16	4.93	5.27	9	6.20	6.48
23	5.27	5.60	16	5.92	6.48
30	5.60	5.88	23	6.26	6.62
Jan. 7, 1949	5.88	6.18	30	5.26	6.65
14	6.18	6.43	Oct. 7	5.22	5.53
21	6.43	6.70	14	5.53	5.90
28	6.70	6.92	21	5.90	6.19
Feb. 4	6.92	7.14	28	6.10	6.37
11	7.14	7.35	Nov. 4	6.15	6.45
18	7.35	7.53	11	5.73	6.55
25	7.53	7.71	18	5.73	6.08
Mar. 4	7.71	7.78	25	6.08	6.38
11	7.78	7.91	Dec. 2	6.38	6.63
18	7.91	8.05	9	6.63	6.83
25	8.05	8.17	16	6.83	7.02
Apr. 1	8.17	8.27	23	7.02	7.18
8	8.27	8.38	30	5.50	7.19

G300. U. S. Geol. Survey. Sec. 32, T. 43 S., R. 41 E. Records available: 1941-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	3.34	Apr. 2	2.50	July 2	3.20	Oct. 15	1.94
8	2.96	9	1.90	9	4.15	22	1.32
15	3.34	16	2.96	16	3.95	29	1.92
22	4.38	23	1.96	23	3.50	Nov. 5	1.54
29	4.44	30	2.32	30	4.45	12	1.46
Feb. 5	4.30	May 7	1.90	Aug. 13	3.00	19	1.02
12	3.74	14	1.06	20	3.34	26	.94
19	3.50	21	1.92	Sept. 3	1.92	Dec. 3	+0.08
26	3.50	28	2.54	10	1.94	10	1.70
Mar. 5	1.82	June 4	1.90	17	1.36	17	.78
12	2.82	11	2.50	24	1.42	24	1.34
19	2.52	18	1.18	Oct. 1	.68	31	1.52
26	2.12	25	1.74	8	1.56		

Pinellas County

13. Formerly well 555. U. S. Geol. Survey. 0.6 mile southeast of Tarpon Springs, on south edge of city dump, near SE corner SE  $\frac{1}{4}$  sec. 13, T. 27 S., R. 15 E. Records available: 1947-49.

## High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	8.90	9.72	....	10.13	8.95	10.29	9.07	10.44	8.65	9.33	9.10	10.24
2	8.85	9.81	....	10.01	9.06	10.22	8.82	10.35	8.76	9.32	9.11	10.24
3	8.82	9.83	....	9.89	9.12	10.21	8.75	10.31	8.85	9.33	9.27	10.19
4	8.82	9.85	....	9.90	9.07	10.22	8.73	10.31	8.95	9.35	9.37	10.01
5	9.07	9.71	....	9.97	9.06	10.21	8.50	10.30	8.95	9.30	9.35	9.91
6	9.12	9.76	....	....	8.96	10.20	9.25	9.91	9.01	9.35	9.13	10.04
7	9.20	9.62	....	....	9.11	10.29	9.10	10.00	9.00	9.38	9.10	10.16
8	9.22	9.62	....	....	9.06	10.29	9.05	9.78	9.02	9.39	9.02	10.34
9	9.28	9.76	....	....	8.96	10.26	8.97	9.67	8.98	9.48	8.88	10.44
10	9.29	9.83	9.10	10.14	8.81	10.27	8.95	9.62	8.86	9.57	8.84	10.35
11	9.25	9.80	9.16	10.27	8.86	10.42	8.74	9.53	8.76	9.68	8.87	10.35
12	9.10	9.82	8.87	10.17	8.81	10.40	8.47	9.63	8.72	9.80	8.84	10.25
13	9.00	9.90	8.80	10.37	8.80	10.40	8.47	9.64	8.70	9.86	8.90	10.17
14	8.99	9.98	8.79	10.39	8.75	10.34	8.68	9.36	8.70	9.92	8.94	10.17
15	8.95	10.03	8.68	10.32	8.62	10.34	8.69	9.21	8.76	9.87	....	....
16	8.88	10.13	8.76	9.35	9.15	10.22	8.70	9.21	8.76	9.90	9.16	9.86
17	8.85	10.11	9.03	10.21	8.99	10.30	8.78	9.21	8.93	9.81	9.21	9.76
18	8.97	10.05	8.95	10.22	8.86	10.34	8.74	9.09	9.00	9.75	9.25	9.76
19	9.05	10.05	8.75	10.23	9.15	10.30	8.75	8.92	9.15	9.75	9.18	9.69
20	9.19	9.97	9.02	10.16	9.25	10.28	8.75	9.00	9.24	9.71	9.15	9.60
21	9.10	9.97	9.21	10.19	9.15	10.10	8.74	8.96	9.19	9.63	9.14	9.79
22	9.20	9.99	9.20	10.21	9.10	10.15	8.74	8.91	9.16	9.58	9.13	9.84
23	9.20	10.07	9.22	10.25	9.30	10.20	8.74	8.91	9.15	9.82	8.85	9.88
24	9.14	10.08	9.03	10.22	9.40	10.30	8.74	8.91	9.20	9.85	8.82	9.99
25	9.20	10.14	8.92	10.32	9.40	10.30	8.76	8.99	9.03	9.91	....	....
26	9.12	10.14	8.85	10.38	9.27	10.30	8.78	9.01	9.04	9.96	8.70	10.20
27	....	10.23	8.77	10.31	9.17	10.23	8.69	9.10	9.04	10.07	8.69	10.14
28	....	10.25	8.64	10.28	9.17	10.26	8.63	9.17	8.96	10.12	8.73	10.17
29	....	10.33	....	....	9.20	10.30	8.60	9.27	8.98	10.16	8.74	10.09
30	....	10.23	....	....	9.20	10.36	8.59	9.33	8.94	10.20	8.72	10.05
31	....	10.19	....	....	9.59	10.44	....	....	8.95	10.11	....	....

## High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	8.91	9.91	8.63	9.51	8.18	8.70	7.87	8.30	8.28	8.98	9.58	10.03
2	9.06	9.91	8.62	9.52	8.22	8.78	7.90	8.39	8.41	8.91	9.43	9.73
3	9.05	9.83	8.65	9.46	8.28	8.87	8.29	8.92	8.40	8.88	9.43	10.05
4	9.07	9.86	8.70	9.32	8.32	8.96	8.51	9.06	8.46	8.96	9.30	9.85
5	8.94	9.98	8.60	9.06	8.40	9.04	8.57	9.12	8.48	8.90	9.33	9.96
6	8.79	10.02	8.50	8.93	8.45	9.14	8.64	9.33	8.52	8.95	9.20	9.86
7	8.69	10.17	8.35	8.70	8.56	9.25	8.67	9.35	8.59	8.90	9.09	10.01
8	8.72	10.25	8.25	8.57	8.67	9.31	8.83	9.54	8.56	8.91	9.06	10.13
9	8.81	10.17	8.19	8.51	8.84	9.37	8.94	9.67	8.53	8.97	9.18	10.08
10	8.80	10.03	8.09	8.45	9.00	9.54	9.10	9.77	8.58	8.98	9.32	9.91
11	8.63	9.99	8.02	8.40	9.12	9.66	9.04	9.80	8.66	8.99	9.30	9.89
12	8.52	10.04	7.59	8.15	9.20	9.75	9.03	9.85	8.65	8.95	9.32	9.79
13	8.64	9.92	7.08	7.69	9.34	9.88	9.00	9.82	8.60	8.85	9.33	9.74
14	8.70	9.74	6.90	7.30	9.33	9.90	9.14	9.26	8.49	8.72	9.31	9.64
15	8.78	9.70	7.00	7.40	9.28	9.85	9.12	9.76	8.46	9.02	9.12	9.77
16	8.90	9.70	6.88	7.44	8.98	9.55	8.98	9.28	8.57	8.98	9.35	10.06
17	8.87	9.57	6.65	7.60	8.78	9.30	8.82	9.32	8.62	9.03	9.11	9.93
18	8.83	9.68	7.52	8.16	8.56	9.08	8.68	9.04	8.68	9.04	9.03	10.03
19	8.93	9.67	7.76	8.30	8.40	9.14	8.60	9.04	8.65	9.02	8.99	10.18
20	8.85	9.56	7.78	8.23	8.47	9.13	8.60	9.15	8.42	9.09	9.01	10.17
21	8.82	9.65	7.37	7.80	8.42	8.84	8.58	9.10	8.44	9.35	8.94	10.14
22	8.83	9.65	7.22	7.81	8.38	8.71	8.59	9.14	8.44	9.78	8.92	10.18
23	8.81	9.72	7.27	7.95	8.36	8.69	8.60	9.17	9.11	9.94	8.89	10.24
24	8.75	9.71	7.49	8.10	8.34	8.80	8.53	9.11	9.17	10.04	9.34	9.90
25	....	....	7.65	8.29	8.35	8.82	8.45	9.17	9.06	9.80	9.34	9.90
26	8.55	9.75	7.95	8.50	8.32	8.78	8.48	9.13	9.66	10.26	9.22	9.76
27	8.44	9.86	7.43	8.49	8.30	8.81	8.54	9.07	9.77	10.23	9.18	9.80
28	8.56	9.75	7.46	8.12	8.14	8.79	8.53	8.95	9.83	10.17	9.30	9.83
29	8.74	9.55	7.74	8.25	8.05	8.71	8.42	8.75	9.58	10.12	9.39	9.95
30	8.72	9.44	7.88	8.45	8.02	8.47	8.43	8.62	9.36	10.03	9.37	9.94
31	8.61	9.49	8.05	8.55	....	....	8.37	8.76	....	....	9.26	9.99



77. Formerly well 303. R. Duguid. In Nw¼ sec. 12, T. 28 S., R. 15 E. About 0.8 mile southeast of Palm Harbor, 0.52 mile east of county road 1, 0.2 mile north of State Highway 564, in orange grove. Records available: 1947-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	65.16	65.65	65.30	65.77	65.35	67.27	65.79	67.60	65.10	65.66	65.97	67.00
2	65.10	65.48	65.53	65.88	65.54	66.35	65.45	66.48	65.45	66.20	65.95	67.00
3	64.95	65.30	65.43	65.85	65.57	67.00	65.23	65.73	65.55	66.24	65.99	66.70
4	64.91	65.30	65.34	65.65	65.90	67.64	65.35	65.61	65.55	65.90	65.87	67.28
5	65.07	65.31	65.25	65.55	65.96	67.81	64.93	65.61	65.45	65.90	65.67	66.04
6	65.09	65.30	65.18	65.50	65.55	66.00	65.25	65.46	65.57	66.27	65.60	66.00
7	65.30	65.50	65.20	65.50	65.66	67.71	65.25	65.65	65.45	66.30	65.64	67.13
8	65.30	65.50	65.28	65.56	66.00	67.80	65.28	65.60	65.45	66.11	65.66	67.18
9	65.28	65.55	.....	.....	65.89	67.10	65.23	65.60	65.47	65.81	65.74	66.90
10	65.35	65.61	65.15	65.58	65.63	66.96	65.28	65.70	65.48	66.39	65.75	66.20
11	65.34	65.70	65.17	65.95	65.63	66.90	65.16	65.54	65.49	66.92	65.31	66.00
12	65.20	65.74	65.30	65.92	65.90	66.50	64.90	65.40	65.55	66.90	65.15	65.88
13	65.17	65.75	75.15	65.65	65.35	65.90	64.75	65.30	65.78	66.84	65.15	65.68
14	65.16	65.80	65.02	65.54	65.25	66.69	64.90	65.43	65.65	66.78	65.15	65.68
15	65.23	65.83	64.92	65.65	65.15	66.36	64.99	65.49	65.39	66.45	65.22	65.55
16	65.15	65.70	64.98	65.95	65.65	67.18	65.20	65.68	65.81	66.83	65.30	65.55
17	65.05	65.58	65.23	66.10	65.76	67.01	65.30	65.70	66.00	67.15	65.44	66.09
18	65.13	65.55	65.38	66.20	65.72	66.90	65.30	65.65	66.17	67.31	65.57	65.71
19	65.14	65.54	65.17	66.10	65.88	67.22	65.38	65.62	66.19	67.40	65.42	65.63
20	65.36	65.93	65.30	65.56	65.83	66.87	65.46	65.73	66.09	67.95	65.26	65.48
21	65.38	66.25	65.60	67.32	65.90	67.12	65.45	65.72	65.94	67.81	65.20	65.43
22	65.40	66.15	65.64	67.52	65.71	66.94	65.43	65.65	65.75	66.75	65.10	65.35
23	65.31	65.73	65.64	67.57	65.72	66.96	65.42	65.59	65.74	67.24	64.80	65.34
24	65.36	66.66	65.60	67.00	65.76	67.15	65.31	65.55	65.89	67.68	64.78	65.26
25	65.36	67.00	65.54	67.00	65.86	67.26	65.32	65.80	65.88	67.74	.....	.....
26	65.41	66.41	65.45	66.91	65.73	67.03	65.47	65.75	65.88	68.01	64.80	65.38
27	65.40	66.99	65.15	65.65	65.50	65.97	65.37	65.68	65.99	67.55	64.80	65.38
28	65.32	66.95	65.01	66.10	65.45	66.81	65.38	66.12	66.05	67.70	64.87	65.42
29	65.27	67.00			65.60	67.60	65.32	66.18	65.70	66.35	64.90	65.42
30	65.30	65.89			65.73	67.70	65.36	66.11	65.87	67.67	64.85	65.39
31	65.11	65.99			65.76	67.60			65.98	67.67		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	64.89	65.30	64.83	65.15	63.43	63.68	63.58	63.79	63.57	64.15	65.15	65.42
2	65.07	65.25	64.78	65.10	63.42	63.65	63.62	63.83	64.05	64.26	65.17	65.40
3	65.10	65.25	64.79	65.23	63.44	63.63	63.73	63.94	64.00	64.25	65.18	65.55
4	65.04	65.30	64.95	65.35	63.37	63.63	63.82	63.99	64.11	64.49	65.02	65.48
5	64.96	65.29	64.94	65.34	63.39	63.65	63.79	63.99	64.13	64.48	65.02	65.45
6	64.84	65.24	64.92	65.35	63.44	63.72	63.82	64.09	64.20	64.60	64.96	65.51
7	64.74	65.25	64.78	65.25	63.51	65.70	63.83	64.10	64.32	64.67	64.84	65.31
8	64.78	65.35	64.64	65.13	63.58	63.80	63.92	64.30	64.25	64.61	64.79	65.27
9	64.89	65.46	64.60	65.00	63.65	63.86	63.95	64.34	64.18	64.52	64.91	65.33
10	64.92	65.46	64.58	64.96	63.75	64.00	63.96	64.25	64.17	64.51	65.00	65.28
11	64.79	65.45	64.52	64.88	63.84	64.06	63.94	64.23	64.23	64.54	64.98	65.21
12	64.67	65.28	64.00	64.81	63.92	64.12	63.94	64.23	64.28	64.50	64.98	65.18
13	64.76	65.17	63.98	64.15	63.96	64.18	63.96	64.37	64.11	64.32	64.99	65.11
14	64.80	65.17	63.98	64.13	63.96	64.20	64.05	64.26	63.97	64.11	64.88	65.11
15	64.82	65.10	63.90	64.12	64.00	64.25	64.12	64.32	64.04	64.34	64.77	65.31
16	64.94	65.13	63.95	64.13	64.05	64.27	64.12	64.30	64.30	64.53	64.91	65.33
17	64.99	65.14	63.90	64.12	64.00	64.24	64.14	64.33	64.42	64.63	64.88	65.49
18	64.90	65.13	63.99	64.22	63.98	64.18	64.09	64.33	64.48	64.83	64.79	65.34
19	64.99	65.21	63.99	64.22	64.00	64.20	64.00	64.25	64.53	65.01	64.79	65.80
20	64.92	65.19	63.89	64.10	63.88	64.26	63.96	64.24	64.50	64.97	64.87	66.52
21	64.89	65.25	63.62	64.00	63.53	64.20	63.94	64.36	64.50	64.95	64.98	66.23
22	64.88	65.27	63.55	63.92	63.78	64.18	63.90	64.31	64.51	65.20	64.84	66.28
23	64.81	65.35	63.55	63.87	63.76	64.04	63.88	64.30	64.80	65.19	64.82	66.00
24	64.87	65.36	63.55	63.94	63.75	64.10	63.86	64.26	64.67	65.11	65.46	65.83
25	64.81	65.38	63.62	63.96	63.82	64.16	63.76	64.21	64.52	64.99	65.40	65.59
26	64.81	65.38	63.77	64.01	63.72	64.08	63.80	64.19	65.00	65.30	65.17	65.40
27	.....	.....	63.33	64.01	63.70	64.09	63.95	64.27	65.10	65.42	65.20	65.87
28	64.75	65.23	63.22	63.46	63.67	63.92	64.00	64.20	65.09	65.15	65.32	66.00
29	64.91	65.25	63.25	63.51	63.42	63.74	63.95	64.09	65.00	65.13	65.40	66.85
30	64.92	65.25	63.30	63.57	63.49	63.79	63.73	63.98	65.00	65.14	65.41	66.87
31	64.92	65.21	63.35	63.61			63.60	63.87			65.28	66.87

166. Juice Industries, Inc. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 14, T. 28 S., R. 15 E., in Dunedin, one block north of Main St., east side of Atlantic Coast Line Railroad, at south platform of south plant of Juice Industries, Inc. Unused drilled industrial well, depth 200 feet, and diameter of casing 12 inches. Records available: 1948-49.

High and low daily water level, from recorder charts, 1948

Date	High	Low	Date	High	Low
Dec. 16	11.85	13.56	Dec. 24	12.06	12.89
17	11.90	13.56	25	11.60	12.41
18	11.77	12.95	26	11.61	12.48
19	11.53	12.65	27	12.07	13.69
20	11.78	13.71	28	12.30	14.06
21	12.03	13.83	29	12.20	13.93
22	12.08	14.02	30	12.12	13.00
23	12.21	13.46	31	11.97	13.26

High and low daily water level, from recorder charts, 1949

Day	January		February		March		April		May	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	12.16	13.26	12.47	14.15	13.03	14.93	14.27	16.27	13.33	15.34
2	11.90	12.92	12.61	13.68	12.92	14.75	14.10	15.26	13.80	15.93
3	11.57	13.84	12.44	13.44	13.08	14.90	13.71	14.36	13.53	15.63
4	11.80	14.23	12.60	14.25	13.13	15.22	13.12	14.17	13.42	14.79
5	12.04	14.31	12.50	13.60	13.54	14.95	13.09	14.30	13.24	14.89
6	12.47	14.36	12.44	13.30	13.23	15.50	13.08	14.13	13.15	15.06
7	12.23	14.30	12.61	13.27	13.35	15.50	13.15	14.70	13.31	14.93
8	12.24	14.34	12.38	14.11	13.23	15.42	13.45	14.93	13.40	15.08
9	12.13	13.89	.....	.....	13.35	15.48	13.51	15.26	13.25	15.59
10	12.60	14.40	12.77	14.42	13.51	15.15	13.45	15.06	13.53	15.83
11	12.49	14.50	12.89	14.85	13.70	15.31	12.93	14.83	13.57	15.91
12	12.60	14.47	13.06	14.85	13.45	15.68	12.45	13.67	13.69	16.08
13	12.65	14.49	12.85	14.62	13.51	15.33	12.45	13.90	13.81	16.08
14	12.70	14.54	12.94	14.85	13.67	15.78	12.49	14.32	13.84	16.00
15	12.40	14.54	12.75	14.85	13.34	15.20	12.38	13.95	13.50	15.84
16	12.54	13.57	13.20	14.85	13.22	15.08	12.39	13.98	13.70	15.95
17	12.44	14.71	13.30	14.85	13.11	15.65	12.43	13.85	13.85	16.20
18	12.45	14.68	12.81	14.85	13.48	15.34	12.25	13.96	14.15	16.20
19	12.48	14.80	13.00	14.95	13.34	15.41	12.47	14.51	13.95	16.03
20	12.61	14.46	13.09	14.76	13.46	15.09	12.88	14.71	14.01	16.06
21	13.07	14.75	13.31	15.05	13.48	15.38	12.88	14.85	14.09	16.19
22	13.06	14.60	13.25	15.30	13.20	15.55	12.91	15.05	14.03	15.68
23	12.79	14.60	13.44	15.00	13.75	15.85	13.11	15.20	13.51	16.05
24	13.25	14.85	13.45	14.86	14.15	16.07	13.04	14.76	14.10	16.43
25	13.08	15.15	13.76	15.08	14.35	16.34	12.88	15.45	14.20	16.71
26	13.23	15.05	13.47	14.87	14.20	16.22	13.28	15.58	14.31	16.93
27	13.19	15.55	13.31	14.79	14.29	16.02	13.34	15.88	14.51	17.01
28	13.20	15.05	13.13	14.83	13.96	16.26	13.57	15.97	14.48	16.79
29	13.08	14.95	.....	.....	14.04	16.49	13.72	16.04	14.21	16.40
30	12.75	13.84	.....	.....	14.05	16.65	13.46	15.38	14.17	16.85
31	12.73	13.64	.....	.....	14.13	16.63	.....	.....	14.40	16.23

High and low daily water level, from recorder charts, 1949

Day	June		July		August		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	13.90	14.95	11.98	13.89	11.09	13.31	.....	.....	10.52	12.29
2	13.62	15.12	12.03	13.22	11.02	13.32	.....	.....	10.55	12.70
3	13.51	15.49	12.02	13.03	10.70	12.14	.....	.....	10.65	12.33
4	13.63	15.54	11.89	13.68	10.69	11.93	.....	.....	10.57	12.09
5	13.63	15.42	.....	13.01	10.67	11.51	.....	.....	10.53	12.88
6	13.58	15.70	.....	12.69	10.62	11.45	.....	.....	10.64	12.75
7	13.69	16.02	.....	12.95	.....	11.15	.....	.....	10.63	12.98
8	13.80	16.23	.....	13.10	.....	11.49	.....	.....	10.69	13.50
9	13.87	15.45	.....	13.09	.....	11.69	.....	.....	10.82	13.18
10	13.42	14.67	.....	13.01	.....	11.39	.....	.....	10.84	13.17
11	13.27	14.79	.....	13.60	.....	11.06	.....	.....	10.87	12.45
12	12.85	13.91	.....	12.97	.....	10.88	.....	.....	10.77	13.28
13	12.48	13.82	.....	12.97	.....	11.28	.....	.....	11.05	13.48

High and low daily water level, from recorder charts, 1949

Day	June		July		August		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
14	12.49	14.44	.....	13.97	.....	11.57	.....	.....	11.18	13.40
15	.....	.....	.....	14.29	.....	11.83	.....	.....	11.24	13.31
16	13.06	14.69	.....	14.23	.....	.....	9.70	11.79	11.31	12.94
17	13.15	15.21	.....	13.11	.....	.....	10.05	11.75	11.27	13.43
18	13.30	14.58	.....	13.80	.....	.....	10.07	11.80	11.17	13.32
19	12.59	13.62	.....	13.69	.....	.....	10.17	12.23	11.23	13.57
20	12.32	13.55	.....	13.92	.....	.....	10.17	12.16	11.33	13.68
21	12.21	13.48	.....	13.42	.....	.....	10.03	12.43	11.36	13.65
22	12.30	13.65	.....	12.93	.....	.....	10.06	12.44	11.35	13.66
23	12.27	13.49	.....	12.52	.....	.....	10.12	12.10	11.41	13.29
24	12.22	13.53	.....	12.27	.....	.....	10.05	12.18	11.64	13.59
25	.....	.....	.....	13.07	.....	.....	9.87	11.62	11.48	13.28
26	12.20	13.45	.....	13.56	.....	.....	10.17	12.05	11.19	12.63
27	11.97	14.20	.....	.....	.....	.....	10.17	11.88	11.20	12.80
28	12.20	14.47	11.75	13.52	.....	.....	10.18	12.51	11.63	13.64
29	12.40	14.21	11.72	13.47	.....	.....	10.27	12.65	11.81	13.35
30	12.29	13.52	11.89	13.46	.....	.....	10.35	11.93	11.96	13.92
31	.....	.....	11.53	12.60	.....	.....	.....	.....	11.95	12.92

246. Formerly well 19. City of Clearwater. On east side of Garden Ave., 200 feet south of Marshall St., in NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 29 S., R. 15 E. Records available: 1946-49.

[illegible]

246--Continued.

High and low daily water level, from recorder charts

Day	August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	25.46	25.83	25.07	25.37	24.69	25.01	24.35	25.08	25.89	26.10
2	25.42	25.77	25.07	25.40	24.75	25.01	24.94	25.19	25.94	26.16
3	25.40	25.87	25.06	25.36	24.77	25.04	24.94	25.20	25.98	26.38
4	25.60	26.05	24.99	25.37	24.82	25.07	25.06	25.49	25.82	26.31
5	25.65	26.10	24.96	25.33	24.72	24.99	25.09	25.48	25.87	26.23
6	25.66	26.12	24.81	25.28	24.68	24.98	25.16	25.62	25.74	26.33
7	25.57	25.95	24.85	25.34	24.69	25.01	25.29	25.67	25.60	26.10
8	25.40	25.80	.....	.....	24.76	25.14	25.15	25.62	25.61	26.06
9	25.31	25.73	.....	.....	24.80	25.18	25.07	25.48	25.72	26.19
10	25.30	25.70	.....	.....	24.75	25.19	25.00	25.44	25.82	26.16
11	25.18	25.60	.....	.....	24.68	25.07	25.07	25.48	25.75	26.08
12	24.70	25.35	.....	.....	24.63	25.07	25.13	25.42	25.73	26.01
13	24.88	25.36	.....	.....	24.66	25.07	24.94	25.23	25.74	25.98
14	24.94	25.46	.....	.....	24.77	25.12	24.65	24.93	25.68	25.96
15	24.46	24.94	.....	.....	24.82	25.17	24.75	25.20	25.53	25.99
16	24.57	24.96	.....	.....	24.83	25.13	25.12	25.43	25.92	26.17
17	24.65	25.06	.....	.....	24.84	25.23	25.36	25.59	25.78	26.28
18	24.65	25.05	.....	.....	24.93	25.28	25.45	25.78	25.64	26.12
19	24.72	25.07	.....	.....	24.87	25.22	25.42	25.96	25.70	26.15
20	24.68	25.05	.....	.....	24.80	25.23	25.30	25.88	25.70	26.23
21	24.67	25.00	.....	.....	24.81	25.23	25.15	25.82	25.66	26.16
22	24.58	24.94	24.75	24.17	24.79	25.30	25.20	26.11	25.66	26.06
23	24.58	24.97	24.71	25.13	24.76	25.31	25.52	26.05	.....	.....
24	24.61	25.03	24.69	25.19	24.73	25.24	25.27	25.91	.....	.....
25	24.68	25.11	24.87	25.27	24.67	25.12	25.15	25.67	.....	.....
26	24.77	25.11	24.65	25.15	24.68	25.17	25.60	26.08	.....	.....
27	24.83	25.12	24.63	25.08	24.87	25.28	25.75	25.93	.....	.....
28	24.95	25.22	24.60	24.99	24.92	25.22	25.67	25.83	.....	.....
29	24.97	25.28	24.38	24.83	24.79	25.07	25.62	25.84	.....	.....
30	25.04	25.34	24.56	24.95	24.57	24.94	25.57	25.88	.....	.....
31	25.07	25.37	.....	.....	24.40	24.69	.....	.....	.....	.....

269. Formerly well 5. City of Clearwater. In Clearwater, 200 feet north of Cleveland St., between Lady Mary Drive and Evergreen Ave., 10 feet east of Stevenson Creek, in NE  $\frac{1}{4}$  sec. 15, T. 29 S., R. 15 E. Records available: 1930, 1947-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		June	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	6.95	8.06	7.45	9.09	8.51	11.27	10.24	13.09	.....	.....
2	6.70	8.70	7.10	9.35	8.91	12.18	8.19	10.61	.....	.....
3	6.70	9.87	7.10	10.02	9.16	12.09	7.75	9.50	.....	.....
4	7.35	10.00	7.96	9.54	9.90	12.42	7.60	9.11	.....	.....
5	7.25	10.04	6.81	9.09	9.46	12.19	7.30	9.02	.....	.....
6	7.40	9.76	7.10	9.15	8.50	11.23	6.99	9.77	.....	.....
7	7.35	10.16	7.70	9.09	8.77	11.10	7.74	10.12	.....	.....
8	7.20	10.35	7.70	9.20	8.95	12.10	7.88	10.70	.....	.....
9	8.01	10.00	.....	.....	9.11	12.58	7.92	11.29	.....	.....
10	8.03	10.54	8.12	10.17	9.10	10.86	8.17	10.91	.....	.....
11	8.89	10.80	8.18	10.65	8.50	12.04	7.82	11.21	.....	.....
12	8.92	10.60	8.68	11.00	8.62	12.32	7.90	9.26	.....	.....
13	7.87	10.50	9.09	10.59	9.39	11.78	7.58	9.45	.....	.....
14	7.74	10.61	8.71	11.15	8.71	12.08	7.58	9.71	.....	.....
15	8.94	10.80	8.58	10.85	9.10	10.50	7.39	9.15	.....	.....
16	8.95	9.73	8.88	11.20	8.55	12.14	7.60	8.82	7.85	11.15
17	9.67	10.70	8.71	10.66	8.90	12.40	7.55	8.92	8.57	11.57
18	8.92	10.69	8.58	10.65	9.85	12.15	7.34	10.46	8.12	10.91
19	8.34	10.80	9.06	10.99	9.38	12.23	7.99	10.91	7.52	8.60
20	9.09	10.92	8.95	9.90	9.00	11.79	8.45	11.48	7.57	8.40
21	9.19	10.72	8.69	11.38	9.11	12.34	8.71	11.46	7.15	8.58
22	8.60	10.83	8.82	11.73	9.00	12.40	8.80	11.55	7.32	9.10
23	8.80	10.42	9.13	11.90	9.12	12.80	9.48	11.35	7.44	8.56
24	8.56	11.06	9.18	11.80	10.23	13.09	8.91	10.81	6.97	9.19

269--Continued.

High and low daily water level, from recorder charts										
Day	January		February		March		April		June	
	High	Low	High	Low	High	Low	High	Low	High	Low
25	9.19	11.14	9.06	12.00	10.20	13.12	8.38	11.76	7.50	8.58
26	9.21	11.21	9.14	12.01	10.08	12.59	9.92	12.31	7.60	8.99
27	9.19	11.08	8.70	10.40	9.68	12.09	10.01	12.30	7.56	10.65
28	8.60	10.99	8.19	10.51	8.97	12.68	9.98	12.09	8.37	11.08
29	8.01	9.60			9.49	13.33	9.83	12.06	8.64	11.17
30	8.04	9.40			10.55	13.52	.....	.....	8.75	10.44
31	7.20	9.10			10.19	13.40				

High and low daily water level, from recorder charts												
Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	8.46	10.70	7.15	7.95	.....	.....	5.61	6.50	6.00	7.18	7.50	10.28
2	8.20	9.93	6.89	7.85	.....	.....	5.76	6.62	6.29	7.83	7.67	10.64
3	8.20	10.00	7.05	8.19	.....	.....	5.99	7.01	6.42	8.61	7.85	10.83
4	8.40	10.80	.....	.....	.....	.....	5.88	7.51	6.61	9.19	7.88	10.63
5	7.40	9.85	.....	.....	.....	.....	5.95	7.64	6.70	9.47	7.70	10.76
6	7.11	8.30	7.10	8.15	.....	.....	6.21	8.61	6.85	9.36	7.80	10.78
7	7.63	8.67	6.85	7.80	.....	.....	6.09	7.87	6.90	9.89	7.92	10.57
8	7.18	10.18	6.95	7.73	.....	.....	6.37	9.04	7.06	9.83	7.52	10.63
9	8.29	9.67	.....	.....	.....	.....	6.00	7.78	6.35	7.30	8.11	10.75
10	7.68	9.33	.....	.....	.....	.....	5.69	6.90	6.25	7.33	8.18	10.60
11	8.00	10.15	.....	.....	.....	.....	5.74	6.73	6.49	9.07	7.72	10.38
12	7.20	9.30	.....	.....	.....	.....	5.95	6.80	6.73	9.33	7.88	10.74
13	7.32	8.99	6.22	6.23	.....	.....	5.66	6.96	6.40	7.50	8.11	10.70
14	7.36	9.25	.....	.....	.....	.....	6.00	7.71	6.29	7.10	8.15	10.71
15	7.71	10.20	.....	.....	.....	.....	6.36	7.80	6.00	7.28	7.40	10.41
16	7.81	9.65	.....	.....	.....	.....	6.56	7.94	6.40	7.58	7.38	9.81
17	6.98	8.65	.....	.....	.....	.....	6.23	8.47	6.70	8.78	7.55	10.30
18	7.10	7.69	6.77	9.29	6.58	8.45	5.83	8.90	6.50	8.94	8.09	10.35
19	6.72	7.61	.....	.....	6.47	7.11	6.63	9.31	6.97	9.50	7.98	10.97
20	6.80	7.80	.....	.....	5.97	6.95	6.66	9.26	6.99	9.49	7.86	10.98
21	6.94	7.91	.....	.....	6.08	6.95	6.68	9.49	6.88	9.88	7.93	10.80
22	6.98	8.00	.....	.....	5.97	6.89	6.74	9.46	7.15	9.87	7.78	11.09
23	6.85	7.75	.....	.....	6.10	6.95	6.69	9.11	7.30	10.03	7.85	10.24
24	7.12	7.86	.....	.....	6.60	8.34	6.34	9.56	7.27	9.81	8.05	9.92
25	7.23	8.85	.....	.....	6.03	7.15	6.59	9.43	7.00	9.63	7.58	9.18
26	7.09	8.65	.....	.....	6.00	7.35	6.69	9.60	7.02	10.01	7.65	8.87
27	.....	.....	.....	.....	5.93	7.05	6.88	9.64	7.51	9.90	7.58	10.50
28	7.49	9.85	.....	.....	5.79	6.55	6.88	9.66	7.41	10.44	7.81	10.78
29	7.70	10.32	.....	.....	5.83	6.58	6.86	9.30	7.51	10.33	8.03	10.78
30	7.71	10.63	.....	.....	5.75	6.65	6.09	7.47	7.36	9.84	8.00	11.17
31	7.04	8.32	.....	.....			5.68	7.28			8.32	11.15

272. Formerly well 9. City of Clearwater. In shed at south side of Drew St. between Myrtle Ave. and Seaboard Air Line Railroad tracks, in NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 29 S., R. 15 E. Records available: 1945-49. Measurement discontinued.

High and low daily water level, from recorder charts					
Date	High	Low	Date	High	Low
Mar. 1	26.29	26.97	Mar. 14	26.30	27.73
2	26.64	27.20	15	26.35	26.91
3	26.91	27.41	16	26.55	28.29
4	26.93	28.02	17	26.93	28.27
5	26.92	27.88	18	26.82	27.80
6	26.44	27.16	19	26.92	27.78
7	26.40	26.83	20	26.82	27.80
8	26.66	27.04	21	26.97	27.83
9	26.64	27.46	22	26.84	27.71
10	26.35	27.00	23	26.88	27.95
11	26.41	26.85	24	27.33	28.21
12	26.43	27.54	25	27.42	28.35
13	26.30	26.98	26	27.33	28.34

272--Continued.

High and low water level, from recorder charts

Date	High	Low	Date	High	Low
Mar. 27	26.97	28.07	Apr. 28	27.10	28.29
28	26.97	28.34	29	26.96	28.30
29	27.30	28.58	30	26.98	28.27
30	27.52	28.76	May 1	26.62	27.94
31	27.50	28.73	2	26.85	27.91
Apr. 1	27.45	28.49	3	26.89	27.60
2	26.37	27.76	5	26.20	27.30
3	25.83	26.37	6	26.65	27.80
4	25.77	26.06	7	26.94	27.87
5	25.43	25.97	8	26.87	27.93
6	25.78	26.46	9	27.57	28.25
7	26.11	26.84	10	27.29	28.45
8	26.27	27.33	11	27.20	28.43
9	26.47	27.56	12	27.22	28.51
10	26.35	26.73	13	26.71	28.28
11	26.24	27.49	14	26.91	28.55
12	25.67	26.32	15	26.70	28.56
13	25.60	26.06	16	27.02	28.40
14	25.71	26.15	17	27.19	28.48
15	25.75	26.24	18	27.50	28.66
16	25.72	26.37	19	27.34	28.66
17	26.02	26.37	20	27.28	28.48
18	26.15	27.15	21	27.23	28.39
19	26.41	27.71	22	27.05	28.40
20	26.88	28.03	23	26.85	28.35
21	27.04	27.95	24	27.30	28.60
22	27.00	28.04	25	27.33	28.70
23	26.97	28.03	26	27.51	28.85
24	26.59	27.63	27	27.66	29.04
25	26.69	28.34	28	27.82	29.08
26	27.29	28.41	29	27.16	29.08
27	27.19	28.30	30	27.05	28.50

337. Formerly well 467. Coachman Packing Co. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 7, T. 29 S., R. 16 E. About 0.28 mile northeast of Coachman, about 600 feet northwest of State Highway 590. Records available: 1947-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	44.00	44.09	44.20	44.25	.....	.....	45.25	45.43	44.60	44.70	45.23	45.56
2	43.89	44.00	44.25	44.25	.....	.....	45.06	45.41	44.66	44.89	45.17	45.41
3	43.85	43.90	44.20	44.24	.....	.....	44.79	45.09	44.83	45.13	45.16	45.51
4	43.87	43.90	44.11	44.20	.....	.....	44.78	45.08	44.86	44.99	45.14	45.47
5	43.86	43.91	44.06	44.11	.....	.....	44.64	44.89	44.85	45.09	44.94	45.14
6	43.91	44.06	.....	.....	.....	.....	44.64	44.96	44.78	45.02	44.91	45.25
7	44.06	44.13	.....	.....	.....	.....	44.73	44.98	44.70	45.83	44.99	45.29
8	44.10	44.19	.....	.....	.....	.....	44.70	44.90	44.68	44.73	45.06	45.22
9	44.10	44.20	.....	.....	.....	.....	44.64	44.95	44.64	44.83	45.10	45.16
10	44.10	44.20	44.01	44.14	.....	.....	44.60	44.71	44.69	44.95	45.08	45.25
11	44.10	44.20	44.12	44.39	.....	.....	44.49	44.76	44.73	44.97	44.90	45.20
12	44.07	44.20	44.32	44.41	44.82	45.17	44.30	44.54	44.78	44.97	44.66	44.94
13	44.09	44.20	44.25	44.40	44.74	44.90	44.16	44.30	44.87	45.18	44.52	44.90
14	44.15	44.25	.....	.....	44.58	44.89	44.19	44.29	44.90	45.23	44.44	44.58
15	44.15	44.27	.....	.....	44.62	45.13	44.17	44.30	44.77	44.93	44.42	44.60
16	44.10	44.19	.....	.....	44.90	45.40	44.25	44.35	44.79	45.15	44.43	44.46
17	44.10	44.15	.....	.....	45.02	45.49	44.35	44.45	44.94	45.30	44.45	44.46
18	44.10	44.15	.....	.....	45.00	45.31	44.37	44.43	45.05	45.41	44.45	44.48
19	44.15	44.20	.....	.....	45.05	45.42	44.38	44.47	45.11	45.50	44.36	44.45
20	44.20	44.25	.....	.....	45.01	45.15	44.44	44.53	45.16	45.53	44.28	44.36
21	44.21	44.28	.....	.....	45.00	45.36	44.48	44.55	45.18	45.35	44.21	44.30
22	44.21	44.30	.....	.....	44.93	45.36	44.45	44.52	45.00	45.18	44.10	44.25
23	44.20	44.30	.....	.....	.....	.....	44.43	44.56	44.93	45.34	44.02	44.17
24	44.21	44.33	.....	.....	45.03	45.60	44.47	44.53	45.12	45.53	43.95	44.09

337--Continued.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
25	44.27	44.36	.....	.....	45.12	45.48	44.46	44.68	45.25	45.58	43.96	44.06
26	44.24	44.37	.....	.....	45.14	45.50	44.65	44.72	45.33	45.70	43.95	44.08
27	44.21	44.34	.....	.....	45.12	45.32	44.63	45.73	45.47	45.77	43.95	44.07
28	44.25	44.35	.....	.....	44.97	45.41	44.63	44.73	45.49	45.77	43.97	44.09
29	44.25	44.35			45.11	45.64	44.61	44.71	45.38	45.55	44.02	44.10
30	44.10	44.25			45.23	45.57	44.61	44.71	45.35	45.80	44.01	44.10
31	44.15	44.20			45.23	45.51			45.35	45.70		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	44.02	44.07	43.80	43.87	42.63	42.75	42.29	42.39	42.34	42.62	43.53	43.72
2	44.02	44.05	43.72	43.82	42.63	42.75	42.28	42.40	42.58	42.69	43.70	43.83
3	44.03	44.06	43.70	43.82	42.64	42.78	42.31	42.43	42.62	42.75	43.77	43.90
4	44.03	44.09	43.75	43.90	42.66	42.81	42.36	42.45	42.74	42.90	43.81	43.89
5	43.99	44.09	43.77	43.90	42.70	42.80	42.35	42.45	42.85	43.07	43.73	43.87
6	43.92	44.08	43.79	43.90	42.67	42.76	42.36	42.45	42.92	43.07	43.78	43.87
7	43.87	44.01	43.73	43.90	42.60	42.71	42.37	42.45	43.01	43.11	43.68	43.80
8	43.90	44.02	43.64	43.82	42.60	42.66	42.43	42.52	43.03	43.11	43.63	43.76
9	43.91	44.06	43.56	43.70	42.60	42.62	42.46	42.52	42.93	43.04	43.72	43.80
10	43.95	44.07	43.56	43.65	42.62	42.71	42.45	42.51	42.90	42.98	43.75	43.81
11	43.93	44.08	43.49	43.60	42.70	42.83	42.44	42.51	42.92	43.00	43.73	43.80
12	43.84	44.03	43.00	43.49	42.80	42.85	42.40	42.47	42.95	43.00	43.70	43.76
13	43.80	43.89	43.87	43.00	42.85	42.87	42.43	42.51	42.83	42.98	43.69	43.75
14	43.80	43.86	42.84	42.88	42.85	42.92	42.48	42.57	42.59	42.78	43.67	43.73
15	43.81	43.86	42.84	42.88	42.90	43.00	42.52	42.61	42.63	42.86	43.63	43.68
16	43.82	43.84	42.88	42.95	42.90	43.01	42.54	42.66	42.85	43.05	43.62	43.84
17	43.82	43.83	42.89	42.95	42.90	43.03	42.60	42.71	43.04	43.15	43.80	43.90
18	43.80	43.83	42.85	42.96	42.86	43.03	42.63	42.73	43.12	43.30	43.78	43.89
19	43.78	43.84	43.84	43.95	42.77	42.98	42.58	42.72	43.25	43.53	43.67	43.78
20	43.76	43.84	42.76	42.93	42.73	42.89	42.58	42.70	43.25	43.53	43.68	43.80
21	43.76	43.87	42.65	42.83	42.66	42.83	42.58	42.68	43.19	43.29	43.70	43.79
22	43.77	43.88	42.60	42.72	42.58	42.76	42.60	42.70	43.29	43.48	43.66	43.75
23	43.77	43.89	42.61	42.70	42.52	42.62	42.61	42.68	43.41	43.48	43.68	43.91
24	43.79	43.90	42.63	42.72	42.52	42.62	42.56	42.66	43.31	43.45	43.92	44.07
25	43.77	43.90	42.70	42.79	42.57	42.64	42.53	42.62	43.13	43.33	44.00	44.07
26	43.82	43.91	43.74	42.80	42.54	42.64	42.54	42.68	43.33	43.57	43.87	43.98
27	.....	.....	42.55	42.75	42.48	42.58	42.64	42.73	43.52	43.57	43.79	43.86
28	43.79	43.88	42.60	42.77	42.72	42.84	42.68	42.75	43.48	43.53	43.81	43.91
29	43.85	43.89	42.76	42.81	42.21	42.34	42.64	42.73	43.44	43.60	43.90	44.03
30	43.87	43.90	42.71	42.79	42.25	42.35	42.49	42.67	43.42	43.53	44.00	44.45
31	43.86	43.89	42.66	42.80			42.32	42.48			44.11	44.18

561. Formerly well 488. City of St. Petersburg. In NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 26, T. 30 S., R. 16 E., about 2.6 miles northeast of Pinellas Park, about 1 mile northeast of intersection of 74th Ave. N. with State Highway 600, about 700 feet south of State Highway 600. Records available: 1947-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	2.40	2.69	2.42	2.65	2.75	3.03	2.94	3.12	2.37	2.70	2.64	2.95
2	2.25	2.65	2.58	2.70	2.87	3.04	2.63	3.10	2.47	2.70	2.74	2.94
3	2.10	2.40	2.50	2.73	2.97	2.10	2.52	2.83	2.61	2.80	2.74	3.03
4	2.05	2.25	2.38	2.53	3.01	3.15	2.52	2.75	2.70	2.93	2.88	3.10
5	2.15	2.25	2.30	2.40	2.91	3.10	2.18	2.67	2.58	2.95	2.79	2.97
6	2.18	2.30	2.25	2.44	2.66	2.99	2.18	2.79	2.56	2.75	2.63	2.82
7	2.26	2.60	2.25	2.45	2.66	2.95	2.68	3.00	2.53	2.70	2.60	2.87
8	2.45	2.60	2.25	2.55	2.87	3.18	2.65	2.89	2.45	2.64	2.56	2.91
9	2.44	2.69	2.33	2.60	2.88	3.06	2.55	2.81	2.47	2.69	2.60	2.92
10	2.46	2.73	.....	.....	2.61	2.80	2.55	2.84	2.43	2.67	2.62	2.96
11	2.48	2.75	2.38	3.02	2.54	2.96	2.45	2.75	2.33	2.67	2.41	2.92
12	2.45	2.75	2.70	2.97	2.67	2.96	2.22	2.59	2.36	2.68	2.24	2.74

561--Continued.

High and low water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
13	2.34	2.70	2.49	2.85	2.62	2.88	1.99	2.36	2.43	2.73	2.21	2.55
14	2.34	2.74	2.37	2.67	2.50	2.83	2.21	2.43	2.44	2.80	2.15	2.51
15	2.41	2.76	2.28	2.56	2.38	2.95	2.22	2.50	2.41	2.85	....	....
16	2.35	2.70	2.34	2.50	2.94	3.13	2.40	2.51	2.42	2.76	2.13	2.34
17	2.30	2.65	2.50	2.67	2.77	3.13	2.52	2.85	2.50	2.80	2.20	2.35
18	2.36	2.56	2.59	2.80	2.50	2.92	2.46	2.75	2.63	2.92	2.25	2.39
19	2.37	2.60	2.37	2.71	2.55	3.03	2.47	2.75	2.67	2.91	2.20	2.38
20	2.55	2.68	2.37	2.68	2.85	3.24	2.55	2.86	2.70	2.86	2.10	2.27
21	2.55	2.72	2.50	2.82	2.68	3.13	2.62	2.65	2.69	2.80	2.05	2.22
22	2.55	2.75	2.67	3.01	2.53	2.85	2.60	2.78	2.62	2.90	1.92	2.20
23	2.55	2.85	2.64	2.96	2.50	2.75	2.51	2.72	2.58	2.82	1.74	2.10
24	2.53	2.85	2.74	3.05	2.63	2.95	2.49	2.67	2.71	2.95	1.69	2.00
25	2.49	2.85	2.63	2.88	2.81	3.10	2.49	2.88	2.66	2.96	....	....
26	2.60	2.86	2.58	2.84	2.91	3.14	2.70	2.93	2.72	3.05	1.60	2.09
27	2.42	2.72	2.47	2.80	2.85	3.10	2.51	2.83	2.79	3.10	1.83	2.16
28	2.35	2.61	2.35	2.86	2.74	3.00	2.40	2.69	2.80	3.14	1.86	2.15
29	2.30	2.65			2.68	3.17	2.34	2.62	2.71	3.12	1.92	2.19
30	2.51	2.75			3.01	3.18	2.39	2.61	2.67	3.03	1.88	2.16
31	2.27	2.61			2.92	3.19			2.67	2.99		

High and low water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	1.89	2.09	1.82	2.00	1.35	1.62	1.40	1.62	1.12	1.66	2.27	2.68
2	1.89	2.06	1.78	2.00	1.30	1.62	1.40	1.64	1.58	1.72	2.49	2.72
3	2.01	2.10	1.83	2.19	1.29	1.57	1.41	1.64	1.52	1.74	2.53	2.88
4	2.02	2.21	1.99	2.35	1.21	1.54	1.44	1.62	1.64	1.97	2.56	2.81
5	1.94	2.21	2.01	2.35	1.20	1.49	1.32	1.56	1.63	1.90	2.48	2.74
6	1.79	2.17	2.00	2.35	1.25	1.47	1.29	1.47	1.69	2.02	2.51	2.80
7	1.75	2.07	1.91	2.34	1.34	1.53	1.27	1.45	1.83	2.13	2.28	2.67
8	1.84	2.20	1.74	2.17	1.39	1.55	1.37	1.56	1.77	2.08	2.15	2.48
9	1.96	2.22	1.69	1.98	1.44	1.57	1.37	1.55	1.63	1.93	2.30	2.62
10	1.94	2.31	1.73	1.92	1.43	1.65	1.37	1.56	1.62	1.93	2.38	2.62
11	1.83	2.25	1.70	1.92	1.55	1.72	1.30	1.50	1.69	1.97	2.37	2.58
12	1.68	2.09	1.04	1.82	1.65	1.77	1.25	1.49	1.71	1.96	2.37	2.53
13	1.79	2.00	1.08	1.42	1.65	1.80	1.28	1.53	1.54	1.83	2.35	2.49
14	1.83	2.02	1.34	1.47	1.58	1.80	1.37	1.60	1.23	1.58	2.34	2.45
15	1.85	1.98	1.44	1.60	1.63	1.93	1.43	1.65	1.36	1.74	2.22	2.39
16	1.85	1.98	1.59	1.72	1.65	1.92	1.37	1.64	1.69	1.98	2.12	2.71
17	1.92	1.99	1.55	1.73	1.61	1.94	1.43	1.70	1.86	2.05	2.55	2.84
18	1.91	1.98	1.52	1.74	1.56	1.94	1.54	1.75	1.91	2.22	2.32	2.63
19	1.90	2.08	1.42	1.74	1.47	1.83	1.50	1.75	1.99	2.33	2.21	2.59
20	1.86	2.08	1.32	1.65	1.51	1.77	1.51	1.70	1.89	2.19	2.20	2.63
21	1.85	2.11	1.35	1.65	1.47	1.78	1.49	1.71	1.78	2.12	2.24	2.58
22	1.85	2.15	1.37	1.65	1.45	1.71	1.49	1.75	1.83	2.51	2.13	2.42
23	1.87	2.17	1.40	1.67	1.41	1.58	1.48	1.75	2.18	2.51	2.13	2.72
24	1.94	2.20	1.42	1.67	1.37	1.58	1.44	1.68	2.03	2.44	2.73	3.08
25	1.87	2.23	1.51	1.77	1.42	1.62	1.35	1.67	1.70	2.15	2.75	3.00
26	1.88	2.19	1.64	1.80	1.28	1.54	1.40	1.73	2.13	2.64	2.47	2.76
27	....	....	1.14	1.74	1.22	1.47	1.54	1.85	2.32	2.59	2.40	2.49
28	1.90	2.10	1.00	1.26	1.22	1.45	1.58	1.83	2.23	2.36	2.37	2.57
29	1.97	2.16	1.24	1.48	1.16	1.39	1.45	1.75	2.21	2.34	2.49	2.71
30	1.99	2.11	1.35	1.56	.98	1.55	1.30	1.60	2.11	2.28	2.53	2.79
31	1.97	2.08	1.30	1.59			1.10	1.37			2.60	2.85



## Polk County

44. P. E. Williams. SW  $\frac{1}{4}$  sec. 26, T. 26 S., R. 27 E., 2.5 miles northwest of Davenport and 1.5 miles west of U. S. Highway 17. Records available: 1946-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	1.58	1.61	2.01	2.05	2.43	2.48	2.41	2.44	....	....
2	1.60	1.62	2.00	2.05	2.45	2.49	2.44	2.47	....	....
3	1.61	1.65	2.01	2.05	2.47	2.51	2.47	2.52	....	....
4	1.65	1.66	2.04	2.09	2.46	2.52	2.46	2.52	....	....
5	1.65	1.66	2.04	2.09	2.46	2.52	2.46	2.54	....	....
6	1.66	1.70	2.01	2.05	2.48	2.51	2.56	2.56	2.06	2.13
7	1.68	1.70	2.02	2.13	2.47	2.62	2.53	2.57	2.11	2.18
8	1.70	1.75	2.10	2.15	2.56	2.61	2.56	2.60	2.17	2.27
9	1.72	1.75	2.10	2.16	2.55	2.62	2.59	2.67	2.24	2.29
10	1.72	1.77	2.10	2.16	2.55	2.65	2.62	2.67	2.26	2.33
11	1.72	1.79	2.17	2.23	2.62	2.71	2.64	2.70	2.30	2.37
12	1.73	1.80	2.17	2.21	2.65	2.71	2.67	2.75	2.35	2.41
13	1.75	1.83	2.17	2.21	2.62	2.68	2.73	2.79	2.39	2.45
14	1.78	1.85	2.17	2.20	2.64	2.72	2.78	2.81	2.44	2.47
15	1.82	1.85	2.18	2.27	2.65	2.72	2.78	2.85	2.47	2.50
16	1.82	1.85	2.23	2.28	2.68	2.72	2.84	2.86	2.51	2.55
17	1.83	1.87	2.27	2.31	2.67	2.72	2.85	2.86	2.56	2.61
18	1.86	1.90	2.27	2.30	2.68	2.75	2.86	2.90	2.60	2.65
19	1.88	1.91	2.25	2.28	2.75	2.83	2.90	2.94	2.63	2.67
20	1.90	1.94	2.28	2.31	2.75	2.82	2.94	2.97	2.66	2.72
21	1.90	1.94	2.23	2.29	2.73	2.78	2.96	2.98	2.71	2.78
22	1.91	1.94	2.25	2.29	2.74	2.80	2.89	3.02	2.77	2.82
23	1.90	1.93	2.24	2.34	2.75	2.85	2.86	2.91	2.80	2.87
24	1.90	1.99	2.30	2.37	2.75	2.86	2.88	3.00	2.83	2.88
25	1.95	2.01	2.30	2.36	2.78	2.86	2.98	3.03	2.86	2.93
26	1.95	2.01	2.33	2.37	2.78	2.86	....	....	2.90	2.98
27	1.95	2.00	2.32	2.37	2.78	2.84	....	....	2.96	3.03
28	1.97	2.04	2.36	2.44	2.82	2.91	....	....	2.98	3.04
29	2.00	2.05	....	....	2.73	2.92	....	....	2.97	3.00
30	1.95	2.02	....	....	2.40	2.73	....	....	2.98	3.04
31	1.96	2.01	....	....	2.39	2.42	....	....	3.00	3.06

High and low daily water level, from recorder charts

Day	June		July		August		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	3.00	3.03	2.37	2.40	2.39	2.47	....	....	1.67	1.71
2	2.98	3.04	2.40	2.44	2.25	2.39	....	....	1.68	1.74
3	3.01	3.07	2.44	2.46	2.22	2.25	....	....	1.71	1.75
4	3.06	3.10	2.46	2.50	2.23	2.26	....	....	1.72	1.75
5	3.07	3.12	2.33	2.52	2.26	2.30	....	....	1.72	1.78
6	3.09	3.17	2.26	2.33	2.29	2.34	....	....	1.75	1.78
7	3.14	3.22	2.27	2.31	2.32	2.37	....	....	1.75	1.80
8	3.20	3.25	2.28	2.34	2.37	2.42	....	....	1.78	1.80
9	3.00	3.26	2.28	2.32	2.40	2.47	....	....	1.79	1.82
10	3.00	2.08	2.30	2.35	2.45	2.50	....	....	1.80	1.82
11	2.89	2.86	2.32	2.39	2.47	2.50	....	....	1.80	1.83
12	2.86	2.89	2.39	2.44	2.23	2.47	....	....	1.82	1.85
13	2.87	2.91	2.44	2.46	2.20	2.23	....	....	1.82	1.85
14	2.78	2.87	2.44	2.45	2.24	2.27	....	....	1.83	1.88
15	2.74	2.76	2.43	2.47	2.18	2.28	....	....	1.84	1.90
16	2.75	2.81	2.35	2.46	2.08	2.16	....	....	1.88	1.94
17	2.80	2.87	2.17	2.35	2.09	2.11	....	....	1.88	1.94
18	2.65	2.84	2.15	2.17	2.08	2.12	1.50	1.57	1.88	1.93
19	2.57	2.65	2.14	2.16	2.12	2.19	1.53	1.58	1.88	1.92
20	2.56	2.58	2.15	2.17	2.18	2.24	1.53	1.58	1.92	1.95
21	2.56	2.59	2.15	2.19	2.08	2.27	1.55	1.60	1.92	1.95
22	2.57	2.61	2.17	2.24	1.88	2.08	1.60	1.64	1.93	1.96
23	2.60	2.64	2.22	2.27	1.81	1.88	1.61	1.64	1.97	2.01
24	2.61	2.65	2.25	2.29	1.83	1.89	1.58	1.63	1.98	2.02
25	2.53	2.61	2.28	2.32	1.86	1.91	1.55	1.65	1.35	1.99
26	2.50	2.53	2.31	2.38	1.73	1.91	1.65	1.67	1.16	1.35
27	2.51	2.54	2.32	2.36	1.12	1.73	1.65	1.67	1.13	1.17
28	2.36	2.42	....	....	....	....	1.67	1.68	1.17	1.23
29	2.37	2.40	2.35	2.38	....	....	1.66	1.70	1.20	1.23
30	2.38	2.41	2.38	2.42	....	....	1.62	1.69	1.18	1.25
31	....	....	2.42	2.45	....	....	....	....	1.24	1.29

45. Claude Hardin. At Sand Gully, 3.6 miles south of Lakeland.  
Records available: 1948-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	61.59	61.67	62.30	62.45	.....	.....	66.56	66.79	66.30	66.50	65.97	66.30
2	61.44	61.60	62.37	62.50	.....	.....	66.52	66.72	66.38	66.46	65.80	65.97
3	61.31	61.45	62.46	62.56	.....	.....	66.39	66.55	65.97	66.25	65.65	65.80
4	61.34	61.35	62.56	62.65	.....	.....	66.29	66.42	65.75	65.97	65.45	65.65
5	61.33	61.36	62.63	62.70	.....	.....	66.19	66.30	65.56	65.75	65.18	65.45
6	61.35	61.42	62.63	62.70	.....	.....	66.25	66.32	65.35	65.57	65.02	65.18
7	61.42	61.49	62.55	62.64	.....	.....	66.17	66.28	65.22	65.35	65.06	65.12
8	61.49	61.60	62.56	62.69	.....	.....	66.02	66.17	65.10	65.25	65.07	65.14
9	61.59	61.70	62.63	62.74	.....	.....	66.08	66.19	65.08	65.17	65.05	65.14
10	61.58	61.69	62.65	62.90	.....	.....	66.10	66.22	65.07	65.12	64.92	65.06
11	61.51	61.62	62.89	63.15	.....	.....	65.67	66.14	65.02	65.18	64.73	64.94
12	61.50	61.60	63.06	63.20	.....	.....	65.52	65.77	65.08	65.30	64.55	64.74
13	61.55	61.70	63.07	63.20	.....	.....	65.47	65.60	65.12	65.34	64.37	64.55
14	61.66	61.80	63.07	63.10	.....	.....	65.54	65.65	65.07	65.25	64.24	64.37
15	61.77	61.95	62.90	63.10	.....	.....	65.63	65.70	64.86	65.08	64.11	64.24
16	61.93	61.97	63.00	63.27	.....	.....	65.63	65.74	64.79	65.05	64.10	64.14
17	61.88	61.97	63.20	63.42	.....	.....	65.53	65.70	64.95	65.08	64.13	64.15
18	61.92	61.97	63.33	63.50	.....	.....	65.39	65.53	65.00	65.19	64.01	64.15
19	61.98	62.08	63.42	63.54	.....	.....	65.38	65.67	65.12	65.38	63.88	64.02
20	62.08	62.20	63.48	63.54	.....	.....	65.62	65.88	65.26	65.45	63.76	63.88
21	62.20	62.30	63.45	63.65	.....	.....	65.78	65.95	65.33	65.44	63.66	63.77
22	62.30	62.40	63.54	63.81	.....	.....	65.90	66.14	65.38	65.46	63.55	63.67
23	62.37	62.41	63.64	63.98	.....	.....	66.03	66.24	65.35	65.65	63.54	63.60
24	62.27	62.39	63.92	64.10	.....	.....	66.08	66.20	65.52	65.89	63.54	63.59
25	62.25	62.33	.....	.....	66.17	66.57	66.00	66.27	65.72	65.97	63.54	63.64
26	62.16	62.31	.....	.....	66.36	66.53	66.07	66.32	65.87	66.20	63.60	63.69
27	62.08	62.22	.....	.....	66.11	66.38	66.09	66.30	66.12	66.40	63.55	63.61
28	62.06	62.20	.....	.....	66.06	66.33	66.15	66.45	66.30	66.53	63.54	63.57
29	62.19	62.35	.....	.....	66.25	66.52	66.32	66.73	66.35	66.51	63.55	63.56
30	62.29	62.37	.....	.....	66.42	66.67	66.49	66.73	66.26	66.65	63.55	63.60
31	62.22	62.31	.....	.....	66.54	66.77	.....	.....	66.30	66.52	.....	.....

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	63.60	63.69	63.80	63.85	61.66	61.80	61.30	61.39	61.72	61.89	62.67	62.86
2	63.69	63.73	63.78	63.84	61.66	61.75	61.20	61.32	61.78	61.89	62.84	62.99
3	63.68	63.74	63.80	63.85	61.62	61.72	61.10	61.20	61.77	61.82	62.94	63.03
4	63.54	63.69	63.77	63.86	61.60	61.69	61.10	61.15	61.80	61.89	62.90	63.03
5	63.54	63.65	63.75	63.85	61.56	61.66	61.10	61.15	61.86	61.96	62.85	62.95
6	63.59	63.66	63.73	63.84	61.55	61.62	61.11	61.20	61.91	62.00	62.85	62.94
7	63.54	63.62	63.65	63.76	61.55	61.60	61.16	61.23	61.91	62.00	62.83	62.92
8	63.55	63.63	63.62	63.70	61.58	61.65	61.20	61.29	61.90	61.99	62.91	63.06
9	63.57	63.65	63.63	63.70	61.60	61.65	61.11	61.29	61.82	61.94	63.06	63.15
10	63.55	63.62	63.67	63.77	61.67	61.70	61.01	61.12	61.79	61.86	63.15	63.20
11	63.54	63.60	63.75	63.81	61.69	61.74	61.03	61.09	61.75	61.80	63.15	63.20
12	63.54	63.57	63.56	63.76	61.58	61.70	61.04	61.09	61.80	61.86	63.11	63.19
13	63.55	63.62	63.55	63.57	61.57	61.63	61.10	61.20	61.80	61.86	63.05	63.12
14	63.62	63.70	63.50	63.55	61.61	61.68	61.20	61.27	61.66	61.80	63.05	63.10
15	63.70	63.63	63.50	63.53	61.64	61.68	61.25	61.30	61.71	61.87	63.05	63.17
16	63.81	63.88	63.50	63.52	61.63	61.70	61.30	61.36	61.87	62.05	63.17	63.36
17	63.85	63.89	63.50	63.52	61.70	61.77	61.36	61.46	.....	.....	63.30	63.40
18	63.72	63.85	63.52	63.59	61.70	61.79	61.46	61.59	62.10	62.26	63.29	63.40
19	63.66	63.72	63.45	63.56	61.67	61.77	61.51	61.61	62.20	62.35	63.23	63.37
20	63.65	63.71	63.45	63.52	61.71	61.80	61.58	61.69	62.21	62.35	63.30	63.40
21	63.69	63.76	63.40	63.52	61.77	61.85	61.65	61.80	62.18	62.28	63.40	63.45
22	63.73	63.83	63.50	63.62	61.80	61.87	61.78	61.88	62.30	62.45	63.45	63.50
23	63.82	63.92	63.55	63.65	61.75	61.84	61.77	61.88	62.40	62.45	63.50	63.72
24	63.85	63.94	63.60	63.71	.....	.....	61.70	61.80	62.36	62.43	63.72	63.75
25	63.81	63.90	63.62	63.71	61.74	61.85	61.73	61.80	62.28	62.42	63.33	63.72
26	63.84	63.92	63.40	63.69	61.77	61.79	61.77	61.81	62.42	62.52	63.07	63.33
27	63.91	63.00	62.65	63.40	61.61	61.70	61.80	61.65	62.50	62.53	62.80	63.07
28	.....	.....	62.90	63.15	61.45	61.61	61.81	61.90	62.49	62.51	62.77	62.80
29	63.92	63.97	62.40	62.90	61.32	61.45	61.90	61.94	62.50	62.53	62.78	62.89
30	63.93	63.97	62.13	62.40	61.31	61.39	61.83	61.95	62.49	62.67	62.85	63.00
31	63.85	63.95	61.70	63.13	.....	.....	61.70	61.85	.....	.....	63.00	63.16

45-A. Claude Hardin. At Sand Gulley, 3.6 miles south of Lakeland.  
Records available: 1948-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	2.57	2.60	2.85	2.87	3.02	3.07	3.32	3.32	3.52	3.52	3.48	3.54
2	2.60	2.60	2.87	2.87	3.07	3.09	3.32	3.32	3.50	3.52	3.47	3.48
3	2.60	2.61	2.87	2.87	3.09	3.11	3.32	3.35	3.50	3.50	3.47	3.47
4	2.61	2.64	2.87	2.87	3.11	3.12	3.35	3.36	3.49	3.50	3.47	3.48
5	2.64	2.64	2.82	2.87	3.12	3.12	3.36	3.36	....	....	3.48	3.49
6	2.64	2.64	2.82	2.82	3.12	3.12	3.36	3.39	3.49	3.49	3.49	3.50
7	2.64	2.67	2.82	2.84	3.12	3.12	3.39	3.39	3.49	3.49	3.50	3.53
8	2.67	2.67	2.83	2.85	3.12	3.12	3.40	3.40	3.49	3.49	3.53	3.55
9	2.68	2.70	2.85	2.85	3.12	3.12	3.40	3.40	3.50	3.51	3.53	3.56
10	2.70	2.70	....	....	3.12	3.12	3.40	3.43	3.51	3.53	3.51	3.53
11	2.70	2.70	2.92	2.95	3.12	3.12	3.43	3.43	3.53	3.54	3.37	3.51
12	2.70	2.70	2.95	2.97	3.12	3.12	3.43	3.44	3.54	3.54	3.32	3.37
13	2.70	2.70	2.97	2.97	3.12	3.12	3.43	3.44	3.54	3.57	3.27	3.32
14	2.70	2.70	2.97	2.97	3.12	3.13	3.42	3.43	3.57	3.58	3.23	3.27
15	2.70	2.71	2.97	2.97	3.13	3.13	3.42	3.44	3.58	3.60	3.20	3.23
16	2.71	2.72	2.97	2.97	3.13	3.25	3.44	3.44	3.60	3.60	....	....
17	2.72	2.73	2.97	2.97	3.25	3.25	3.44	3.46	3.60	3.61	3.21	3.25
18	2.73	2.75	2.97	2.97	3.25	3.25	3.46	3.48	3.61	3.63	2.90	3.21
19	2.75	2.77	2.98	2.98	3.25	3.27	3.48	3.49	3.63	3.63	2.74	2.90
20	2.77	2.80	2.98	2.98	3.27	3.27	3.49	3.50	3.63	3.63	2.70	2.74
21	2.80	2.80	2.98	3.00	3.27	3.27	3.50	3.51	3.63	3.63	2.70	2.70
22	2.80	2.81	3.00	3.01	3.27	3.27	3.51	3.51	3.63	3.67	2.70	2.70
23	2.81	2.81	3.01	3.02	3.27	3.27	3.51	3.51	3.67	3.68	2.60	2.70
24	2.81	2.81	3.02	3.02	....	....	3.51	3.51	3.68	3.68	2.48	2.60
25	2.82	2.82	3.02	3.02	3.30	3.32	3.51	3.55	3.68	3.69	2.30	2.48
26	2.82	2.82	3.02	3.02	3.32	3.32	3.55	3.55	3.69	3.70	2.30	2.30
27	2.82	2.82	3.02	3.02	3.32	3.33	3.55	3.56	3.70	3.72	2.30	2.30
28	2.82	2.82	3.02	3.02	3.33	3.33	3.56	3.56	3.72	3.72	2.30	2.30
29	2.82	2.82			3.33	3.33	3.54	3.56	3.72	3.72	2.21	2.30
30	2.82	2.82			3.32	3.32	3.52	3.55	3.69	3.72	2.20	2.21
31	2.82	2.85			3.32	3.32			3.54	3.69		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	2.20	2.20	2.62	2.62	1.35	1.42	1.27	1.30	1.97	2.00	2.52	2.57
2	2.20	2.25	2.50	2.62	1.42	1.48	1.30	1.34	1.99	2.03	2.57	2.60
3	2.25	2.30	2.45	2.50	1.48	1.54	1.34	1.39	2.03	2.07	2.60	2.61
4	2.30	2.32	2.45	2.48	1.54	1.59	1.39	1.45	2.07	2.11	2.61	2.61
5	2.32	2.34	2.48	2.51	1.59	1.64	1.45	1.48	2.11	2.18	2.61	2.61
6	2.34	2.39	2.44	2.53	1.64	1.68	1.43	1.46	2.18	2.22	2.61	2.61
7	2.39	2.40	2.40	2.44	1.68	1.71	1.43	1.49	2.22	2.24	2.61	2.61
8	2.40	2.46	2.40	2.42	1.71	1.72	1.49	1.57	2.24	2.25	2.61	2.61
9	2.46	2.49	2.42	2.45	1.72	1.75	1.57	1.62	2.25	2.25	2.61	2.61
10	2.49	2.50	2.45	2.50	1.75	1.82	1.60	1.64	2.25	2.25	2.61	2.63
11	2.50	2.52	2.49	2.51	1.82	1.90	1.60	1.60	2.25	2.27	2.63	2.64
12	2.52	2.58	2.05	2.49	1.90	1.92	1.60	1.63	2.27	2.28	2.64	2.65
13	2.58	2.61	1.92	2.05	1.92	1.96	1.63	1.71	2.28	2.30	2.65	2.65
14	2.61	2.64	1.90	1.92	1.96	2.01	1.71	1.76	2.18	2.30	2.65	2.65
15	2.64	2.67	1.90	1.90	2.01	2.05	1.76	1.80	2.18	2.21	2.65	2.65
16	2.61	2.66	1.90	1.94	2.00	2.04	1.80	1.87	2.21	2.28	2.65	2.68
17	2.56	2.62	1.94	1.95	2.00	2.04	1.87	1.93	....	....	2.68	2.70
18	2.55	2.56	1.95	1.99	2.04	2.06	1.93	1.97	2.35	2.37	2.70	2.70
19	2.55	2.55	1.93	1.99	2.06	2.07	1.97	2.00	2.37	2.39	2.70	2.70
20	2.55	2.57	1.92	1.93	1.88	2.07	2.00	2.03	2.39	2.39	2.70	2.70
21	2.57	2.61	1.90	1.92	1.83	1.88	2.03	2.07	2.40	2.40	2.70	2.70
22	2.61	2.67	1.88	1.90	1.71	1.83	2.07	2.09	2.40	2.46	2.70	2.70
23	2.67	2.69	1.88	1.93	1.62	1.71	2.09	2.11	2.46	2.47	2.70	2.74
24	2.69	2.70	1.93	2.00	....	....	2.11	2.12	2.47	2.47	2.74	2.75
25	2.70	2.71	2.00	2.04	1.61	1.62	2.12	2.13	2.45	2.47	2.26	2.75
26	2.71	2.71	2.04	2.04	1.62	1.64	2.13	2.18	2.45	2.50	1.95	2.26
27	2.71	2.71	1.30	2.04	1.64	1.64	2.18	2.19	2.50	2.51	1.92	1.95
28	....	....	1.33	1.33	1.40	1.64	2.15	2.18	2.51	2.52	1.92	1.92
29	2.69	2.73	1.33	1.33	1.26	1.40	2.14	2.15	2.52	2.52	1.92	1.92
30	2.65	2.69	1.33	1.33	1.26	1.27	2.07	2.14	2.52	2.52	1.92	1.92
31	2.62	2.65	1.33	1.35			2.00	2.07			1.93	1.99

47. U. S. Geol. Survey.  $SE\frac{1}{4}NE\frac{1}{4}$  sec. 33, T. 26 S., R. 27 E., about 2 miles northwest of Davenport. Drilled observation well, diameter 6 inches, depth 67 feet. Records available: 1948-49.

High and low daily water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Nov. 11, 1948	.....	44.21	June 10, 1949	48.53	48.61
18	44.21	44.56	17	48.61	48.63
25	44.56	44.91	24	48.55	48.62
Dec. 2	44.91	45.22	July 1	48.47	48.55
9	45.22	45.49	8	48.38	48.47
16	45.49	45.76	15	48.30	48.38
23	45.76	45.95	22	48.23	48.30
30	45.95	46.27	29	48.14	48.23
Jan. 7, 1949	46.27	46.35	Aug. 5	48.09	48.14
14	46.35	46.54	12	48.04	48.09
21	46.54	46.74	19	47.97	48.04
28	46.74	46.92	26	47.85	47.97
Feb. 4	46.92	47.12	Sept. 2	47.37	47.85
11	47.12	47.29	9	45.83	47.37
18	47.29	47.46	16	45.06	45.83
25	47.46	47.63	23	44.97	45.06
Mar. 4	47.63	47.77	30	45.05	45.29
11	47.77	47.90	Oct. 7	45.23	45.29
18	27.90	48.04	14	45.24	45.32
25	48.04	48.17	21	45.32	45.45
Apr. 1	48.09	48.27	28	45.45	45.59
8	48.27	48.30	Nov. 4	45.59	45.69
15	48.30	48.35	11	45.69	45.79
22	48.35	48.44	18	45.79	45.92
29	48.44	48.52	25	45.92	46.04
May 6	48.43	48.55	Dec. 2	46.04	46.20
13	48.30	48.43	9	46.20	46.35
20	48.28	48.30	16	46.35	46.50
27	48.29	48.42	23	46.50	46.65
June 3	48.42	48.53	30	46.65	46.75

48. U. S. Geol. Survey.  $NW\frac{1}{4}SW\frac{1}{4}$  sec. 9, T. 32 S., R. 28 E., on State Highway 17, 2.7 miles south of Frostproof. Drilled observation well, diameter 6 inches, depth 62 feet. Records available: 1949.

High and low daily water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Apr. 8	43.39	43.58	Aug. 26	44.87	44.92
15	43.58	43.74	Sept. 2	42.61	44.87
22	43.74	43.85	9	42.37	42.61
29	43.85	43.97	16	42.37	42.56
May 6	43.97	44.07	23	42.56	42.75
13	44.07	44.19	30	42.72	42.90
20	44.19	44.29	Oct. 7	42.60	42.76
27	44.29	44.39	14	42.61	42.78
June 3	44.39	44.51	21	42.78	42.92
10	44.51	44.59	28	42.92	43.01
17	44.59	44.72	Nov. 4	43.01	43.12
24	44.72	44.77	11	43.12	43.20
July 1	44.77	44.79	18	43.20	43.30
8	44.79	44.86	25	43.30	43.39
15	44.86	44.94	Dec. 2	43.39	43.49
22	44.94	45.02	9	43.49	43.60
29	45.02	45.12	16	43.60	43.70
Aug. 5	45.12	45.21	23	43.70	43.80
12	45.21	.....	30	43.80	43.88
19	44.92	.....			

49. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 31 S., R. 30 E., on State Highway 630, 0.2 miles southwest of intersection of State Highway 60. Drilled observation well, diameter 6 inches, depth 17 feet. Records available: 1949.

High and low daily water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Apr. 8	4.30	4.77	Aug. 26	0.67	1.65
15	4.30	4.63	Sept. 2	.01	1.42
22	4.63	4.81	9	1.22	1.75
29	4.81	4.94	16	1.46	1.57
May 6	4.94	5.05	23	1.13	1.81
13	5.05	5.10	30	.09	1.60
20	5.10	5.20	Oct. 7	.54	1.40
27	5.20	5.33	14	1.35	1.68
June 3	5.33	5.43	21	1.68	2.02
10	5.43	5.54	28	1.89	2.17
17	5.29	5.54	Nov. 4	1.87	2.27
24	3.95	5.29	11	2.00	2.39
July 1	3.57	3.95	18	1.67	2.23
8	2.94	3.82	25	2.04	2.40
15	2.84	3.40	Dec. 2	2.40	2.62
22	1.45	2.84	9	2.62	2.73
29	1.48	2.30	16	2.73	2.90
Aug. 5	1.78	2.35	23	2.90	2.95
12	.43	2.44	30	2.31	2.95
19	.42	1.51			

50. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, T. 31 S., R. 31 E., on State Highway 60, 2.8 miles west of Kissimmee River bridge. Drilled observation well, diameter 6 inches, depth 20 feet. Records available: 1948-49.

High and low daily water level, from recorder charts

Week ending	High	Low	Week ending	High	Low
Nov. 18, 1948	2.56	2.79	June 10, 1949	3.93	4.03
25	2.36	2.82	17	4.03	4.14
Dec. 2	2.06	2.44	24	2.78	....
9	2.06	2.24	July 1	2.46	....
16	2.16	2.27	8	1.39	2.49
23	2.18	2.38	13	1.39	1.82
30	2.18	2.29	22	.69	1.66
Jan. 7, 1949	2.27	2.44	29	.51	1.28
14	2.44	2.62	Aug. 5	.81	1.24
21	2.62	2.71	12	.26	1.61
28	2.71	2.91	19	.24	1.25
Feb. 4	2.91	3.01	26	.24	1.44
11	3.01	3.14	Sept. 2	+1.19	1.07
18	3.14	3.29	9	1.07	1.87
25	3.29	3.42	30	+2.23	....
Mar. 4	3.42	3.55	Nov. 4	....	2.85
11	3.55	3.67	11	2.85	3.00
18	3.67	3.78	18	2.38	2.99
25	3.78	3.84	25	2.58	2.95
Apr. 1	3.84	3.96	Dec. 2	2.95	3.17
May 13	3.59	3.63	9	3.17	3.30
20	3.63	3.69	16	3.30	3.41
27	3.69	3.83	23	3.41	3.50
June 3	3.83	3.93	30	3.12	3.50

## St. Johns County

2. P. J. Marucy. At Vilano Beach, on east side of North River, about 150 feet north of Vilano Bridge, 1.9 miles northeast of St. Augustine. Records available: 1934, 1940-42, 1944-49. Jan. 5, +29.7; Feb. 23, +28.7; Apr. 5, +30.5; May 18, +30.1; Aug. 16, +32.0; Oct. 12, +28.7; Dec. 7, +28.2.

3. Francis Usina. At Usina Beach, on east side of North River, 2.4 miles north of Vilano Bridge, about 4 miles north of St. Augustine. Records available: 1934, 1940-41, 1944-49. Jan. 5, +32.0; Feb. 23, +32.0; Apr. 5, +31.0; May 18, +30.5; Aug. 16, +32.2; Oct. 12, +31.5; Dec. 7, +31.7.

4. Mill Creek School. On northwest side of Nine Mile Road, about 700 feet northeast of intersection with State Highway 48, in rear of schoolhouse, 8.3 miles southeast of Shands Bridge. Records available: 1934, 1940, 1944-46, 1949. Oct. 12, +19.5; Dec. 7, +19.2.

5. G. L. Oesterricker. On east side of Inland Waterways Canal, on north side of State Highway 306, 3.2 miles south of Palm Valley. Records available: 1934, 1940, 1944-49. Jan. 5, +45.5; Feb. 23, +45.3; Apr. 5, +45.2; May 18, +43.8; June 30, +43.0; Aug. 16, +46.0; Oct. 14, +45.9; Dec. 7, +45.5.

8. Parish Bros. Near SW. corner NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 4, T. 5 S., R. 28 E., 0.5 mile southwest of Florida East Coast Railway, 2.5 miles southeast of Bayard. Records available: 1934, 1940-42, 1944, 1946-49. Jan. 6, +32.7; Feb. 24, +32.7; Apr. 7, +32.8; May 18, +34.0; June 30, +32.1; Aug. 18, +35.9; Oct. 14, +34.7; Dec. 7, +34.6.

9. Ponce de Leon Hotel. In St. Augustine. Records available: 1930, 1940, 1946-49. Jan. 5, +30.5; Feb. 24, +30.0; Apr. 5, +29.4; May 18, +28.9; Aug. 16, +30.6; Oct. 14, +29.6; Dec. 7, +30.1.

#### Santa Rosa County

8. P. L. Coleman. On north side of East River, near NE. corner SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 6, T. 2 S., R. 26 W. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	+59.2	Apr. 20	+61.3	July 13	+62.0	Oct. 26	+59.6
Mar. 9	+63.0	June 3	+61.0	Sept. 14	+59.0	Dec. 14	+60.4

10. U. S. Army. At Eglin Auxiliary Field 7, in building 7204, in NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 1, T. 1 S., R. 26 W. Records available: 1947-49.

Jan. 20	82.5	Apr. 20	85.5	July 13	82.0	Oct. 26	79.0
Mar. 9	83.3	June 3	82.5	Sept. 14	78.8	Dec. 14	79.6

11. U. S. Army. At Eglin Auxiliary Field 7, in building 7102, in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 1, T. 1 S., R. 26 W. Records available: 1948-49.

Jan. 20	109.2	Apr. 20	105.2	July 13	109.7	Oct. 26	106.7
Mar. 9	100.7	June 3	115.2	Sept. 14	103.6	Dec. 14	105.7

#### Sarasota County

5. R. M. Canty. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 35 S., R. 20 E., about 300 feet south of State Highway 18, about 12 miles east of Sarasota. Records available: 1941-49.

#### High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	5.33	5.37	6.05	6.07	....	....	7.26	7.28	7.18	7.23	7.50	7.51
2	5.34	5.35	6.06	6.08	....	....	7.22	7.26	7.22	7.29	7.50	7.54
3	5.35	5.36	6.05	6.06	....	....	7.22	7.31	7.27	7.30	7.54	7.59
4	5.38	5.40	6.05	6.05	....	....	7.30	7.36	7.30	7.33	7.59	7.64
5	5.40	5.40	6.04	6.05	....	....	7.30	7.35	7.33	7.35	7.62	7.65
6	5.40	5.42	6.04	6.05	....	....	7.30	7.45	7.27	7.33	7.62	7.65
7	5.42	5.47	6.05	6.09	6.78	6.87	7.46	7.47	7.19	7.27	7.63	7.73
8	5.46	5.53	6.11	6.16	6.87	6.89	7.39	7.46	7.21	7.28	7.69	7.80
9	5.53	5.60	6.12	6.18	6.84	6.88	7.35	7.40	7.23	7.31	7.77	7.85
10	5.56	5.61	....	....	6.81	6.87	7.38	7.45	7.22	7.30	7.78	7.86
11	5.53	5.61	....	....	6.87	6.97	7.35	7.44	7.20	7.26	7.72	7.80
12	5.52	5.60	....	....	6.97	7.00	7.22	7.39	7.22	7.29	7.64	7.75
13	5.52	5.59	....	....	6.99	7.05	7.22	7.31	7.27	7.33	7.62	7.65

5--Continued.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
14	5.55	5.61	....	....	6.99	7.07	7.25	7.33	7.28	7.32	7.58	7.62
15	5.58	5.65	....	....	6.99	7.11	7.24	7.31	7.27	7.31	7.53	7.58
16	5.63	5.66	....	....	7.11	7.22	7.24	7.30	7.27	7.29	7.51	7.53
17	5.64	5.67	....	....	7.15	7.20	7.29	7.30	7.29	7.31	7.52	7.57
18	5.67	5.71	....	....	7.13	7.16	7.25	7.28	7.31	7.33	7.51	7.56
19	5.71	5.76	....	....	7.13	7.22	7.23	7.24	7.30	7.32	7.43	7.51
20	5.76	5.80	....	....	7.22	7.26	7.24	7.25	7.27	7.30	7.56	7.43
21	5.80	5.85	....	....	7.26	7.27	7.24	7.28	7.26	7.28	7.27	7.36
22	5.85	5.90	....	....	7.16	7.26	7.20	7.26	7.30	7.36	7.15	7.27
23	5.89	5.94	....	....	7.14	7.19	7.16	7.24	7.35	7.40	7.06	7.14
24	5.90	5.97	....	....	7.17	7.26	7.15	7.19	7.32	7.40	7.05	7.09
25	5.95	6.01	....	....	7.22	7.28	7.15	7.25	7.30	7.37	7.05	7.10
26	5.96	6.01	....	....	7.23	7.29	7.25	7.33	7.30	7.38	6.98	7.08
27	5.92	5.99	....	....	7.20	7.27	7.19	7.28	7.37	7.44	6.93	6.99
28	5.90	5.97	....	....	7.22	7.29	7.16	7.22	7.40	7.47	6.86	6.93
29	5.96	6.02	....	....	7.29	7.33	7.15	7.20	7.42	7.51	6.80	6.86
30	5.99	6.03	....	....	7.29	7.33	7.15	7.21	7.47	7.55	6.79	6.80
31	6.00	6.05	....	....	7.28	7.31	....	....	7.51	7.53	....	....

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	6.77	6.78	5.95	5.98	4.97	5.05	4.72	4.75	5.14	5.27	5.32	5.43
2	6.78	6.79	5.94	5.99	4.99	5.05	4.70	4.76	5.23	5.29	5.40	5.50
3	6.74	6.77	5.93	5.98	4.95	5.04	4.67	4.74	5.22	5.28	5.48	5.55
4	6.70	6.75	5.92	5.99	4.95	5.00	4.63	4.70	5.26	5.31	5.51	5.58
5	6.64	6.71	5.87	5.97	4.92	5.00	4.63	4.68	5.30	5.39	5.52	5.60
6	6.62	6.70	5.85	5.94	4.91	4.96	4.65	4.72	5.34	5.43	5.53	5.60
7	6.64	6.69	5.83	5.90	4.88	4.95	4.67	4.72	5.37	5.43	5.49	5.57
8	6.65	6.72	5.80	5.86	4.87	4.91	4.71	4.76	5.34	5.42	5.52	5.59
9	6.58	6.69	5.79	5.86	4.84	4.88	4.69	4.76	5.33	5.40	5.59	5.64
10	6.51	6.60	5.80	5.87	4.85	4.87	4.69	4.72	5.35	5.38	5.64	5.67
11	6.49	6.55	5.79	5.81	4.85	4.89	4.63	4.72	5.33	5.38	5.67	5.71
12	6.48	6.54	5.48	5.79	4.86	4.91	4.58	4.64	5.33	5.37	5.71	5.74
13	6.47	6.50	5.45	5.48	4.84	4.87	4.60	4.63	5.29	5.36	5.73	5.77
14	6.46	6.47	5.45	5.45	4.84	4.90	4.60	4.65	5.15	5.28	5.70	5.75
15	6.45	6.46	5.45	5.48	4.88	4.94	4.61	4.67	5.16	5.24	5.67	5.72
16	6.44	6.45	5.47	5.50	4.86	4.93	4.64	4.72	5.24	5.34	5.72	5.88
17	6.37	6.44	5.39	5.48	4.86	4.96	4.72	4.82	5.26	5.34	5.84	5.93
18	6.37	6.40	5.35	5.39	4.86	4.98	4.80	4.87	5.29	5.36	5.85	5.93
19	6.30	6.38	5.33	5.38	4.85	4.92	4.83	4.91	5.28	5.36	5.86	5.93
20	6.27	6.31	5.21	5.32	4.80	4.93	4.86	4.95	5.25	5.34	5.88	5.93
21	6.24	6.30	5.21	5.23	4.81	4.88	4.90	4.98	5.24	5.30	5.88	5.93
22	6.25	6.32	5.22	5.31	4.79	4.88	4.95	5.04	5.30	5.39	5.87	5.91
23	6.25	6.34	5.23	5.30	4.79	4.84	5.00	5.05	5.33	5.39	5.91	6.02
24	6.24	6.31	5.25	5.30	4.80	4.85	5.00	5.07	5.27	5.34	6.02	6.05
25	6.16	6.25	5.24	5.31	4.81	4.85	5.06	5.10	5.16	5.27	6.01	6.05
26	6.14	6.20	5.06	5.26	4.80	4.83	5.10	5.14	5.26	5.33	6.02	6.03
27	6.14	6.20	4.88	5.06	4.76	4.81	5.14	4.17	5.30	5.33	6.01	6.05
28	6.10	6.17	4.96	5.07	4.58	4.76	5.14	5.19	5.30	5.35	6.04	6.09
29	6.05	6.10	5.07	5.10	4.54	4.57	5.17	5.22	5.25	5.31	6.07	6.13
30	6.01	6.05	5.03	5.09	4.57	4.72	5.16	5.23	5.22	5.32	6.10	6.17
31	5.98	6.01	4.97	5.03	....	....	5.13	5.20	....	....	6.17	6.24

9. Palmer Corp. At Palmer Farms, near SE. corner SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 20, T. 36 S., R. 19 E., about 7 miles east of Sarasota. Records available: 1930-37, 1941-49.

High and low daily water level, from recorder charts

Day	March		April		May		June		July		August		September	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	....	3.82	4.02	....	....	2.39	2.43	....	....	0.53	0.62	+0.35	0.02
2	....	....	3.42	3.95	....	....	2.37	2.42	....	....	.45	.55	+0.02	.05
3	....	....	3.17	3.42	....	....	2.38	2.42	1.63	1.86	.48	.59	+0.02	.12
4	....	....	3.13	3.21	....	....	2.37	2.42	1.83	1.88	.58	.65	.04	.14

9--Continued.

High and low daily water level, from recorder charts

Day	March		April		May		June		July		August		September	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
5	....	....	3.02	3.22	2.20	2.40	2.39	2.42	1.63	2.02	0.53	0.61	+0.01	0.10
6	....	....	2.93	3.02	2.08	2.20	2.38	2.97	1.71	2.14	.51	.58	+1.15	.02
7	....	....	2.86	2.93	2.09	2.15	2.78	2.79	1.78	1.91	.45	.55	....	....
8	....	....	....	....	2.10	2.17	2.77	2.79	1.65	1.91	.45	.58	....	....
9	3.32	3.59	2.95	3.05	2.03	2.12	2.75	2.78	1.73	2.00	....	....	....	....
10	3.33	3.60	2.99	3.08	1.95	2.13	2.75	2.77	1.54	1.76	.42	.67	....	....
11	3.36	3.68	3.00	3.11	2.01	2.15	2.75	2.76	1.54	1.80	.53	.67	....	....
12	3.40	3.63	2.72	3.09	1.93	2.04	2.74	2.76	1.42	1.64	.29	.67	....	....
13	3.37	3.70	2.50	2.72	1.95	2.10	2.73	2.75	1.43	1.74	.27	.32	....	....
14	3.33	3.70	2.45	2.85	1.96	2.01	2.73	2.75	1.46	1.72	.27	.30	....	....
15	....	....	2.63	2.92	1.92	2.00	2.72	2.73	1.48	1.72	.26	.30	....	....
16	3.29	3.43	2.51	2.67	1.96	2.00	2.72	2.72	1.47	1.70	.27	.30	....	....
17	3.37	3.44	2.67	2.75	2.00	2.06	2.71	2.72	1.35	1.51	.26	.31	....	....
18	3.36	3.44	2.75	2.90	2.04	2.16	2.70	2.72	1.15	1.35	.24	.37	....	....
19	3.59	3.43	2.90	3.01	2.06	2.15	2.70	2.72	1.07	1.15	.23	.38	....	....
20	3.37	3.41	2.97	3.23	2.05	2.10	2.70	2.71	1.04	1.07	.10	.24	....	....
21	3.35	3.44	2.93	3.23	2.05	2.22	2.69	2.70	.96	1.07	+.04	.43	....	....
22	....	....	2.80	3.22	2.19	2.27	2.68	2.70	.83	.96	.06	.17	....	....
23	3.35	3.51	2.87	3.22	2.17	2.25	2.70	2.70	.79	.92	....	.08	....	....
24	3.44	3.64	2.79	2.88	2.18	2.30	2.70	2.70	....	....	.03	.12	....	....
25	3.52	3.81	2.79	3.23	2.25	2.33	2.70	2.71	....	....	.03	.22	....	....
26	3.67	3.80	2.98	3.23	2.28	2.40	2.70	2.71	.87	.97	+.25	.18	....	....
27	3.51	3.67	2.78	2.98	2.37	2.45	2.70	2.70	.87	.95	+.38	+.25	....	....
28	3.53	3.98	2.73	2.84	2.40	2.51	2.69	2.70	.78	.95	+.27	+.22	....	....
29	3.88	4.04	2.72	2.88	2.42	2.53	2.69	2.70	.70	.85	+.26	+.23	....	....
30	....	....	....	....	2.50	2.56	2.68	2.69	.64	.85	+.30	+.12	....	....
31	....	....	....	....	2.46	2.56	....	....	.59	.65	+.34	+.12	....	....

Taylor County

35. Brooks-Scanlon Corp. About 1 mile southeast of Foley, in NE $\frac{1}{4}$  sec. 10, T. 5 S., R. 8 E. Records available: 1946-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	0.95	1.02	0.61	0.69	0.88	0.94	1.28	1.38	1.00	1.15	2.01	2.06
2	1.00	1.05	.51	.70	.93	1.00	1.10	1.40	1.12	1.20	2.06	2.18
3	1.04	1.09	.56	.60	.98	1.05	1.10	1.14	1.21	1.31	2.16	2.30
4	1.09	1.11	.60	.61	1.03	1.05	.97	1.21	1.30	1.37	2.28	2.39
5	1.09	1.12	.51	.61	1.04	1.07	.30	.97	1.35	1.41	2.36	2.48
6	.90	1.12	.16	.56	.86	1.09	.42	.56	1.39	1.48	2.44	2.58
7	.99	1.04	+.08	.08	.77	.90	.53	.63	1.43	1.55	2.54	2.65
8	1.03	1.11	.07	.17	.90	.98	.59	.64	1.49	1.62	2.61	2.71
9	1.10	1.18	.14	.25	.94	1.03	.64	.73	1.56	1.67	2.66	2.76
10	1.13	1.21	.17	.35	.94	1.12	.68	.78	1.54	1.67	2.58	2.79
11	1.15	1.23	.30	.47	1.08	1.17	.27	.80	1.52	1.69	2.33	2.58
12	1.16	1.26	.36	.46	1.11	1.22	.07	.36	1.66	1.75	2.33	2.38
13	1.20	1.31	.39	.50	1.12	1.26	.17	.37	1.71	1.82	2.06	2.39
14	1.24	1.34	.44	.59	.88	1.22	.37	.48	1.79	1.85	2.03	2.07
15	1.29	1.36	.48	.56	.84	1.01	.48	.54	1.85	1.90	2.04	2.10
16	1.31	1.37	.56	.60	.96	1.05	.54	.64	1.89	1.95	2.10	2.21
17	1.34	1.39	.60	.61	1.02	1.06	.64	.65	1.95	2.02	2.21	2.33
18	1.38	1.43	.61	.62	.89	1.13	.65	.67	2.01	2.08	2.33	2.42
19	1.42	1.45	.62	.63	.93	1.05	.67	.82	2.06	2.11	2.40	2.48
20	1.45	1.50	.61	.63	1.05	1.11	.79	.90	2.10	2.16	2.29	2.49
21	1.45	1.50	.61	.66	1.09	1.13	.85	.92	2.13	2.25	2.21	2.32
22	1.47	1.53	.66	.75	1.06	1.14	.87	.97	2.21	2.30	2.22	2.33
23	1.49	1.54	.70	.81	1.07	1.17	.89	.99	2.26	2.35	2.17	2.34
24	1.50	1.57	.77	.85	1.14	1.25	.95	1.11	2.31	2.39	2.03	2.25
25	1.53	1.60	.81	.92	1.18	1.28	1.05	1.17	2.34	2.56	2.02	2.14
26	1.54	1.61	.87	.96	1.22	1.30	1.12	1.19	2.45	2.60	2.12	2.18
27	1.55	1.62	.67	.96	1.25	1.34	1.15	1.22	2.53	2.61	2.16	2.25
28	1.03	1.62	.74	.89	1.30	1.39	1.17	1.27	2.59	2.66	1.90	2.33
29	.98	1.07	....	....	1.32	1.40	1.24	1.33	2.64	2.70	1.85	1.91
30	.86	1.05	....	....	1.35	1.41	.93	1.33	2.70	2.78	1.79	1.93
31	.58	.93	....	....	1.27	1.44	....	....	2.07	2.81	....	....



35--Continued.

High and low daily water level, from recorder charts										
Day	July		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	1.80	1.86	....	....	2.07	2.12	2.21	2.31	2.84	2.92
2	1.58	1.80	....	....	2.09	2.17	2.26	2.35	2.89	2.99
3	1.58	1.66	....	....	2.12	2.23	2.30	2.45	2.94	3.03
4	1.65	1.77	....	....	2.17	2.26	2.39	2.49	2.96	3.05
5	1.68	1.79	....	....	2.19	2.29	2.45	2.58	3.01	3.09
6	1.68	1.81	....	....	2.24	2.34	2.53	2.63	3.02	3.10
7	1.78	1.69	....	....	2.17	2.34	2.58	2.66	3.05	3.12
8	1.86	1.93	....	....	2.16	2.27	2.63	2.69	3.07	3.15
9	1.91	2.03	....	....	2.22	2.29	2.65	2.70	3.12	3.17
10	1.99	2.10	....	....	2.26	2.35	2.67	2.72	3.13	3.17
11	2.08	2.18	....	....	2.33	2.35	2.70	2.75	3.16	3.20
12	2.15	2.24	....	....	2.34	2.41	2.75	2.80	3.18	3.23
13	2.04	2.25	....	....	2.41	2.48	2.72	2.82	3.19	3.25
14	2.12	2.22	....	....	2.44	2.51	2.69	2.82	3.20	3.26
15	2.20	2.26	....	....	2.47	2.55	2.67	2.79	3.07	3.26
16	2.08	2.28	....	....	2.52	2.61	2.76	2.87	3.03	3.13
17	2.07	2.17	....	....	2.58	2.65	2.83	2.95	3.07	3.15
18	1.60	2.07	....	....	2.61	2.69	2.86	2.99	3.10	3.20
19	1.56	1.60	....	....	2.63	2.73	2.92	2.99	3.14	3.25
20	1.57	1.63	1.69	1.80	2.66	2.77	2.92	3.00	3.20	3.27
21	1.60	1.72	1.74	1.85	2.71	2.83	2.95	3.09	3.22	3.27
22	1.45	1.75	1.78	1.85	2.77	2.86	3.05	3.10	3.24	3.30
23	1.42	1.54	1.80	1.91	2.80	2.88	3.05	3.09	3.30	3.37
24	1.52	1.59	1.87	1.99	2.84	2.88	3.03	3.08	3.35	3.37
25	....	....	1.95	2.02	2.84	2.90	2.82	3.04	3.35	3.37
26	....	....	1.99	2.02	2.89	2.95	2.90	2.95	3.34	3.38
27	....	....	2.00	2.05	2.91	2.98	2.94	3.00	3.36	3.41
28	....	....	1.84	2.05	2.89	2.95	2.98	3.05	3.39	3.43
29	....	....	1.85	2.00	2.90	2.96	2.86	3.05	....	....
30	....	....	2.00	2.11	2.50	2.90	2.77	2.86	....	....
31	....	....	....	....	2.20	2.50	....	....	....	....

36. Brooks-Scanlon Corp. At Foley, in NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 5 S., R. 8 E.  
Records available: 1947-49.

High and low daily water level, from recorder charts										
Day	January		February		March		April		May	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	6.72	6.73	6.86	7.10	6.48	6.54	7.44	7.47	6.99	7.03
2	....	....	6.74	6.86	6.54	6.57	7.47	7.50	7.03	7.10
3	6.71	6.75	6.68	6.74	6.57	6.61	7.49	7.51	7.10	7.16
4	6.75	6.80	6.53	6.68	6.61	6.65	7.49	7.55	7.16	7.21
5	6.80	6.82	6.60	6.64	6.57	6.68	6.51	7.49	7.21	7.26
6	6.82	6.85	6.40	6.60	6.66	6.68	6.34	6.51	7.26	7.34
7	6.85	6.91	5.77	6.40	6.87	6.75	6.31	6.35	7.34	7.38
8	6.90	6.94	5.63	5.77	6.75	6.80	6.34	6.35	7.38	7.45
9	6.94	6.97	5.53	5.63	6.80	6.82	6.34	6.38	7.45	7.52
10	6.97	7.06	5.55	5.59	6.82	6.87	6.38	6.43	7.52	7.56
11	7.03	7.08	5.59	5.62	6.87	6.92	6.26	6.46	7.55	7.59
12	7.05	7.13	5.62	5.66	6.92	6.95	6.12	6.26	7.59	7.65
13	7.13	7.17	5.66	5.70	6.95	6.98	6.04	6.12	7.65	7.72
14	7.17	7.21	5.70	5.75	6.96	7.01	6.00	6.04	7.72	7.77
15	7.21	7.23	5.75	5.81	6.93	6.96	6.00	6.00	7.77	7.82
16	7.23	7.26	5.81	5.88	6.95	6.98	6.00	6.10	7.82	7.89
17	7.26	7.30	5.88	5.97	6.98	7.01	6.10	6.15	7.89	7.97
18	7.30	7.35	5.97	6.02	7.01	7.06	6.15	6.23	7.96	8.02
19	7.35	7.39	5.92	6.12	7.02	7.05	6.23	6.34	7.97	8.06
20	7.39	7.41	6.12	6.15	7.05	7.07	6.34	6.43	8.06	8.11
21	7.41	7.45	6.15	6.21	7.07	7.10	6.43	6.48	8.11	8.16
22	7.45	7.49	6.21	6.25	7.10	7.13	6.49	6.56	8.16	8.20
23	7.49	7.51	6.25	6.31	7.13	7.15	6.56	6.62	8.20	8.26
24	7.51	7.57	6.31	6.35	7.15	7.19	6.62	6.69	8.26	8.32
25	7.57	7.60	6.35	6.40	7.19	7.21	6.69	6.76	8.32	8.37
26	7.60	7.65	6.40	6.45	7.21	7.25	6.76	6.81	8.37	8.43

36--Continued.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
27	7.65	7.68	6.43	6.45	7.16	7.26	6.81	6.87	8.43	8.50	8.77	8.82
28	7.60	7.70	6.43	6.48	7.26	7.32	6.87	6.93	8.50	8.55	8.77	8.85
29	7.56	7.60			7.32	7.36	6.93	6.98	8.55	8.58	8.75	8.77
30	7.50	7.56			7.25	7.40	6.98	6.99	8.58	8.64	8.74	8.76
31	7.10	7.50			7.40	7.44			8.65	8.70		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	8.70	8.74	8.27	8.31	6.55	6.60	8.13	8.16	9.32	9.33	10.15	10.16
2	8.63	8.70	7.96	8.34	6.60	6.63	8.16	8.19	9.33	9.35	10.16	10.19
3	8.53	8.63	7.75	7.96	6.60	6.62	8.19	8.25	9.35	9.39	10.19	10.20
4	8.47	8.53	7.38	7.75	6.60	6.64	8.25	8.35	9.39	9.42	10.20	10.21
5	8.44	8.49	7.30	7.44	6.64	6.70	8.35	8.39	9.42	9.44	10.21	10.25
6	8.49	8.50	7.26	7.30	6.70	6.75	8.38	8.45	9.44	9.47	10.25	10.33
7	8.50	8.53	7.18	7.26	6.75	6.81	8.35	8.49	9.47	9.52	10.29	10.36
8	8.53	8.57	7.15	7.18	6.81	6.90	8.45	8.49	9.52	9.54	10.36	10.39
9	8.57	8.64	7.15	7.17	6.90	6.97	8.49	8.52	9.54	9.58	10.38	10.41
10	8.63	8.66	7.14	7.20	6.97	7.04	8.52	8.58	9.58	9.66	10.38	10.38
11	8.66	8.74	7.18	7.20	7.04	7.10	8.58	8.61	9.66	9.71	10.38	10.43
12	8.74	8.80	7.19	7.22	7.10	7.17	8.61	8.66	9.71	9.74	10.43	10.43
13	8.80	8.85	7.22	7.27	7.17	7.24	8.66	8.70	9.74	9.76	10.43	10.51
14	8.85	8.90	7.25	7.27	7.24	7.30	8.67	8.70	9.76	9.81	10.51	10.55
15	8.90	8.95	7.20	7.25	7.30	7.36	8.67	8.72	9.73	9.82	10.55	10.58
16	8.95	8.98	7.20	7.25	7.36	7.47	8.72	8.74	9.76	9.78	10.58	10.60
17	8.98	9.00	7.25	7.29	7.47	7.55	8.74	8.79	9.78	9.80	10.60	10.63
18	8.66	9.00	7.29	7.31	7.55	7.60	8.79	8.83	9.80	9.91	10.63	10.64
19	8.33	8.66	7.31	7.40	....	....	8.83	8.94	9.91	9.94	10.64	10.67
20	8.19	8.33	7.37	7.42	7.67	7.72	8.94	8.99	9.94	9.96	10.67	10.69
21	8.13	8.19	7.50	7.37	7.72	7.77	8.99	9.05	9.96	10.01	10.69	10.70
22	8.04	8.13	7.05	7.30	7.77	7.83	9.05	9.08	10.01	10.04	10.63	10.73
23	7.97	8.04	6.88	7.05	7.83	7.87	9.06	9.13	10.04	10.07	10.66	10.67
24	7.92	7.97	6.78	6.82	7.87	7.93	9.13	9.18	10.07	10.09	10.67	10.68
25	7.89	7.92	6.73	6.78	7.93	7.97	9.18	9.22	10.05	10.09	10.68	10.68
26	7.89	7.90	6.71	6.73	7.97	8.01	9.22	9.27	10.05	10.14	10.68	10.70
27	7.90	7.90	6.64	6.71	8.01	8.07	9.27	9.30	10.14	10.15	10.70	10.81
28	7.90	7.93	6.60	6.64	8.07	8.10	9.30	9.33	10.13	10.17	10.78	10.84
29	7.93	8.06	6.58	6.60	8.07	8.12	9.33	9.36	10.13	10.14	10.78	10.88
30	8.06	8.16	6.55	6.58	8.08	8.13	9.36	9.38	10.14	10.15	10.88	10.90
31	8.16	8.27	6.55	6.55			9.25	9.39			10.90	10.93

Volusia County

6. Robert Steinhauser. In Oak Hill, at hotel on east side of U. S. Highway 1. Records available: 1948-49. Jan. 6, +3.12; Feb. 24, +2.84; Apr. 8, +1.58; May 19, +1.61; Aug. 19, +2.41; Oct. 15, +2.70; Dec. 7, +3.13.

23. City of Daytona Beach. In Daytona Beach, on west side of Halifax River, east side of Beach St., on projection of Live Oak Ave. Records available: 1947-49. Jan. 6, +1.92; Feb. 25, +2.30; Apr. 8, +2.09; May 19, +1.51; Aug. 18, +2.22; Oct. 14, +2.93; Dec. 7, +2.22.

24. City of New Smyrna. About 2 miles southwest of New Smyrna, in city well field. Records available: 1948-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	....	....	....	7.04	11.73	....	....	....	....	....	....
2	....	....	....	....	7.18	11.82	....	....	6.40	8.87	....	....
3	....	....	....	....	7.50	9.30	....	....	7.50	9.01	....	....
4	....	....	....	....	7.14	11.67	....	....	7.04	11.42	....	....
5	....	....	....	....	7.89	11.57	....	....	....	11.01	....	11.14

24--Continued.

## High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
6	....	....	....	....	7.70	11.30	....	....	....	11.38	....	....
7	6.50	8.31	....	....	7.30	9.50	....	....	....	11.08	....	11.69
8	5.74	8.31	....	....	6.81	9.46	....	....	....	10.90	....	11.81
9	6.16	7.05	....	....	7.26	9.36	6.80	9.25	....	11.25	....	....
10	6.16	8.61	....	....	7.37	8.89	6.77	9.02	....	14.29	....	11.88
11	6.08	8.73	....	....	7.65	9.12	6.89	10.73	....	11.30	....	....
12	6.07	10.80	....	....	7.36	11.45	6.99	9.02	....	....	....	....
13	6.41	8.39	....	....	7.98	9.60	6.60	8.58	....	11.08	....	....
14	6.20	9.14	....	....	6.47	11.28	5.75	10.60	....	11.28	....	12.02
15	6.45	9.00	....	....	7.40	9.10	6.68	9.08	....	....	....	....
16	6.08	8.81	....	....	7.31	9.64	7.59	....	....	11.15	....	....
17	6.35	10.95	....	....	8.21	9.71	7.29	....	....	11.26	....	11.52
18	6.57	9.29	....	....	8.22	9.80	6.96	....	....	11.15	....	11.45
19	6.40	9.06	....	....	8.18	9.69	7.69	....	....	11.10	....	11.15
20	6.70	8.88	....	....	8.01	9.47	7.73	....	....	....	....	....
21	6.45	8.88	....	....	7.93	11.49	....	11.10	....	....	....	11.20
22	....	....	....	....	7.60	11.54	....	....	8.02	11.78	....	11.30
23	....	....	....	....	7.10	11.39	....	....	....	11.15	....	....
24	....	....	....	....	7.95	11.67	....	....	....	11.82	....	....
25	....	....	6.98	9.35	8.18	11.88	....	....	....	11.66	....	....
26	....	....	7.12	11.45	8.49	12.03	....	11.02	....	11.81	....	....
27	....	....	7.79	11.45	8.33	11.77	....	10.94	....	12.26	....	....
28	....	....	7.87	11.67	8.30	11.97	....	11.15	....	12.16	....	....
29	....	....	....	....	7.63	9.55	....	11.18	....	11.77	....	....
30	....	....	....	....	7.26	10.07	....	....	....	11.52	....	....
31	....	....	....	....	5.34	11.49	....	....	....	....	....	....

## High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	....	7.11	7.96	6.40	7.70	7.37	10.12	6.36	9.30	....	....
2	....	....	....	....	6.39	7.61	7.43	10.00	7.00	9.21	....	....
3	....	....	....	....	5.78	7.44	7.47	10.16	7.00	9.28	....	....
4	....	....	....	....	5.60	7.42	7.67	9.94	7.04	9.31	....	....
5	....	....	....	....	5.70	7.64	7.60	10.00	7.10	9.30	....	....
6	6.10	8.18	7.40	8.45	6.47	7.44	7.44	9.80	6.82	9.33	....	....
7	6.08	8.04	7.99	10.38	6.55	7.54	6.60	10.82	7.12	9.35	....	....
8	6.00	8.40	8.15	10.66	6.58	7.62	6.30	10.21	7.11	9.45	....	....
9	6.06	7.30	7.85	11.08	6.50	7.91	5.83	10.03	6.83	9.48	7.46	10.63
10	6.00	7.29	7.60	11.08	5.51	7.77	3.62	9.78	7.01	9.35	7.50	10.67
11	6.58	8.30	6.61	8.30	5.62	6.90	6.41	9.58	7.42	9.37	7.83	10.49
12	7.19	8.55	6.39	8.01	5.90	7.23	8.20	10.08	7.18	9.40	8.04	10.65
13	6.42	8.10	6.95	7.99	5.95	13.47	7.21	9.55	7.21	9.35	7.38	10.97
14	6.32	8.20	6.15	8.77	6.87	13.59	7.52	9.64	5.40	9.25	8.23	10.71
15	6.32	7.74	6.60	9.99	7.30	10.40	....	....	5.32	9.45	8.23	10.36
16	6.25	7.07	7.90	10.40	9.39	12.70	8.17	9.47	5.60	9.33	7.77	10.21
17	5.79	6.98	7.27	8.52	6.95	10.81	7.27	9.45	5.45	8.19	7.25	9.85
18	6.45	6.92	7.29	9.33	6.70	10.35	3.20	9.49	5.53	8.44	7.62	9.72
19	6.68	7.05	6.39	8.12	7.02	10.43	6.99	9.39	5.61	9.66	7.45	9.88
20	6.50	7.85	7.19	10.25	9.27	13.00	7.01	9.81	8.01	9.49	7.50	10.13
21	5.73	7.95	6.15	8.10	8.49	10.53	7.20	9.81	7.22	9.78	7.48	10.00
22	5.70	7.49	6.50	8.15	7.95	11.84	6.75	9.99	7.74	10.19	7.82	9.98
23	6.72	7.96	6.50	8.02	7.78	10.32	7.22	9.59	7.75	9.45	7.40	9.69
24	5.99	8.17	6.52	7.91	7.81	10.43	7.03	9.88	7.12	9.98	7.64	9.78
25	5.98	7.85	6.49	10.02	7.90	10.34	7.12	9.54	6.78	9.68	7.89	9.65
26	6.85	8.09	6.99	8.52	7.70	10.24	6.95	9.50	7.31	9.62	7.72	8.98
27	7.20	9.66	....	8.07	7.53	9.80	3.15	9.44	7.09	9.79	6.91	9.25
28	6.86	10.25	6.85	8.19	7.33	10.40	6.91	9.38	7.18	10.64	7.10	9.15
29	....	....	6.83	7.76	7.42	10.01	6.98	9.32	7.20	10.54	7.13	9.77
30	7.50	10.22	6.77	7.64	7.70	10.28	6.95	9.18	....	....	8.14	9.64
31	7.35	9.81	6.64	7.60	....	....	6.88	9.11	....	....	7.15	9.50

25. City of Daytona Beach. In Daytona Beach, in city park, on south side of walk of north bridge to beach and east of Beach St. Records available: 1948-49.

High and low daily water level, from recorder charts										
Day	January		February		March		April		May	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	+2.50	+1.10	+2.10	+1.16	+2.13	+0.97	+1.46	+0.52	+2.00	+1.66
2	2.40	1.51	2.10	1.38	2.00	1.11	1.65	.81	2.19	1.47
3	2.33	1.13	2.36	1.44	1.84	1.09	2.05	1.15	1.99	1.40
4	2.17	1.28	2.31	1.31	1.98	.98	2.23	.84	2.07	1.40
5	2.17	1.18	2.32	1.07	1.89	.67	2.14	1.17	2.16	1.35
6	....	....	2.24	1.50	1.90	1.20	2.10	.91	2.08	1.42
7	2.17	1.25	2.54	1.13	2.13	1.27	1.93	1.20	2.16	1.37
8	2.30	.89	2.23	1.15	2.29	.85	2.02	1.30	2.08	1.38
9	2.07	1.20	2.29	1.09	2.19	1.19	2.08	1.22	2.05	1.24
10	2.29	.93	2.22	1.08	2.25	1.04	2.24	1.31	1.79	.99
11	2.12	.80	2.20	1.33	1.93	1.27	2.33	1.34	1.61	.73
12	2.11	.95	2.29	1.33	1.99	1.15	2.08	1.39	1.79	1.20
13	2.15	1.01	2.14	1.50	1.93	1.30	2.09	1.30	1.90	1.37
14	2.16	1.07	2.11	1.01	2.08	1.13	2.05	1.13	1.86	1.37
15	2.19	1.04	1.84	.73	1.93	1.23	1.92	1.45	1.76	1.17
16	2.24	1.52	1.83	.70	1.90	1.07	2.06	1.74	1.91	1.04
17	2.09	1.11	1.66	.73	1.85	.97	2.21	1.95	1.80	.62
18	2.02	1.01	1.88	.71	1.75	.82	2.31	1.65	1.43	.75
19	1.90	1.04	2.07	1.24	1.82	1.08	2.16	1.38	1.63	.75
20	1.95	1.05	2.14	1.45	1.92	1.51	2.08	1.34	1.51	.68
21	1.91	.87	2.52	1.09	2.15	.88	2.00	1.26	1.26	.77
22	1.95	1.07	2.21	1.17	1.76	.71	1.94	1.22	1.33	.83
23	2.08	1.30	2.23	.98	1.65	.62	1.75	1.32	1.47	.43
24	2.42	1.31	2.05	1.06	1.49	.50	2.00	1.47	1.12	.58
25	2.27	1.13	2.04	.92	1.34	.42	1.88	1.24	1.12	.56
26	2.04	1.10	1.94	1.13	1.26	.47	1.83	1.05	1.27	.59
27	1.95	.90	2.08	1.45	1.42	.75	1.59	1.10	1.18	.72
28	1.86	.97	2.18	1.29	1.68	.34	1.53	.78	1.08	.59
29	2.00	.89			1.28	.54	1.50	.99	1.35	.84
30	2.29	1.37			1.58	.65	1.70	1.35	1.33	.74
31	2.35	1.23			1.53	.41			1.50	1.09

High and low daily water level, from recorder charts										
Day	June		July		August		September		October	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	+1.85	+1.31	+2.14	+1.46	+1.77	+1.25	+2.28	+1.81	+2.57	+1.58
2	2.16	1.40	2.09	1.54	1.84	1.25	2.41	1.98	2.85	1.67
3	2.14	1.46	2.18	1.75	1.83	1.27	2.44	2.06	3.08	1.92
4	2.08	1.23	2.16	1.65	1.62	1.20	2.57	2.16	2.83	1.92
5	1.70	1.24	2.15	1.32	1.73	.81	2.62	2.07	2.85	1.70
6	1.71	.87	2.01	1.38	1.53	.92	2.46	1.55	2.63	1.53
7	1.36	.57	1.97	1.20	1.60	1.17	2.32	1.26	2.51	1.41
8	1.15	.44	1.97	1.38	1.68	.72	2.08	1.10	2.43	1.42
9	1.05	.36	2.02	1.07	1.40	.68	2.15	1.61	2.72	1.68
10	1.29	.74	2.25	1.84	1.29	.92	2.57	1.13	2.77	1.59
11	1.34	.78	2.26	1.50	1.61	1.12	2.75	2.55	2.63	1.64
12	1.16	.66	2.02	.40	1.91	1.50	2.81	1.62	2.59	1.52
13	1.31	.46	1.67	.85	2.02	1.57	2.24	1.25	2.54	1.47
14	1.16	.28	2.02	1.39	2.15	1.84	2.28	1.13	2.55	1.56
15	1.23	.04	1.92	1.29	2.10	1.27	2.26	1.06	2.67	1.71
16	1.24	.40	1.88	1.10	1.95	1.10	2.28	1.17	2.87	1.90
17	1.25	.49	1.91	1.25	1.75	1.25	2.38	1.25	3.13	1.46
18	1.25	.66	2.18	.32	2.04	1.45	2.35	1.43	2.63	1.27
19	1.15	.70	1.77	.82	2.05	1.37	2.66	.35	2.54	1.29
20	1.30	.44	2.08	1.53	2.02	1.54	1.92	.27	2.48	1.07
21	1.13	.51	2.13	1.50	2.25	1.83	1.63	.05	2.45	1.07
22	1.08	.70	2.03	1.41	2.33	.32	1.59	.07	2.48	1.28
23	1.65	.97	2.03	1.45	1.65	.07	1.82	.17	2.48	1.50
24	1.69	1.08	2.04	1.58	1.71	-.14	1.75	.16	2.55	1.17
25	1.83	1.45	1.99	.40	1.48	-.49	2.39	.93	2.20	.92
26	2.05	1.63	1.46	.55	1.26	-.26	2.56	1.32	2.23	1.10
27	2.09	1.41	1.63	.90	.29	.04	2.39	1.21	2.23	1.11
28	1.98	1.34	1.59	.75	1.26	-.28	2.54	1.52	2.33	1.49
29	1.97	1.58	1.51	.71	1.08	-.43	2.58	1.43	2.61	1.58
30	2.07	1.55	1.53	1.09	1.29	-.14	2.57	1.38	2.74	1.92
31			1.57	1.17	1.85	.50			....	....
									2.70	1.61

27. City of Daytona Beach. On south side of Orange Ave., between South Caroline and South Keesch Sts. Drilled unused public-supply well. Records available: 1948-49. Oct. 29, 1948, +2.30; Nov. 11, 1948, +1.69; Jan. 7, 1949, +2.00.

## High and low daily water level, from recorder charts

Date	High	Low	Date	High	Low
Feb. 25	+2.81	+1.07	Aug. 9	+1.30	+1.03
26	1.66	1.15	10	2.40	.98
27	1.81	1.55	11	1.35	1.15
28	2.92	1.30	12	2.83	1.25
Mar. 1	3.01	1.15	13	2.91	1.56
2	1.65	1.11	14	2.95	1.60
3	2.61	1.04	15	2.98	1.68
4	2.82	1.03	16	2.90	1.61
5	2.60	.85	17	2.74	1.54
6	2.62	1.20	19	2.73	1.59
7	2.96	1.17	20	2.70	1.60
8	2.90	.99	21	3.02	1.62
9	2.92	1.22	22	2.95	1.15
10	2.94	1.20	23	2.54	.75
11	2.86	1.18	24	2.62	.56
12	1.57	1.00	25	1.77	.49
13	1.97	1.30	26	2.23	.39
14	2.80	1.10	Oct. 15	3.51	1.76
15	1.97	1.10	16	3.62	2.10
16	2.72	1.02	17	3.70	1.62
17	2.75	1.19	18	3.46	1.55
18	1.88	.98	19	3.45	1.51
19	2.36	.94	20	3.50	1.33
20	2.49	1.18	21	3.10	1.33
21	2.75	.97	22	3.20	1.38
22	1.78	.88	23	3.00	1.65
23	1.40	.75	24	3.40	1.39
24	1.72	.59	25	2.95	1.38
25	1.38	.47	26	3.22	1.40
26	1.00	.40	27	3.15	1.37
27	2.13	.75	28	3.13	1.50
Apr. 8	2.70	1.22	29	3.40	1.57
9	2.85	1.32	30	3.50	1.90
10	2.85	1.60	31	3.60	1.83
11	3.10	1.41	Nov. 1	2.25	1.60
12	2.98	1.50	2	3.40	1.68
13	3.14	1.53	3	3.42	1.71
14	1.88	1.35	4	3.36	1.65
15	2.73	1.67	5	3.40	1.63
16	2.80	1.80	6	3.40	1.75
17	2.79	1.80	7	3.50	1.25
18	3.16	1.83	8	2.95	1.35
19	2.49	1.80	9	3.37	1.57
20	2.88	1.75	10	3.25	1.54
July 30	1.51	1.18	11	3.30	1.53
31	2.49	1.40	12	3.21	1.53
Aug. 1	2.75	1.34	13	3.25	1.53
2	2.82	1.40	14	3.59	1.80
3	2.75	1.36	15	3.50	1.74
4	2.56	1.18	16	3.45	1.70
5	2.61	1.10	17	3.40	1.69
6	2.39	1.10	18	3.40	1.67
7	1.44	1.18	19	2.70	1.40
8	2.52	1.24	20	3.31	1.50

Wakulla County

2. O. P. Shields. In St. Marks, about 75 feet north of Shields' Restaurant. Recording gage installed Oct. 6, 1949. Records available: 1946-49. Jan. 17, 1.90; Mar. 7, 2.15; Apr. 18, 1.68; May 31, 2.42; July 11, 1.04; Sept. 12, 1.59.

High and low daily water level, from recorder charts

Date	High	Low	Date	High	Low
Oct. 19	1.58	2.11	Nov. 25	1.31	2.37
20	1.43	2.11	26	2.37	2.55
21	1.33	2.02	27	2.08	2.37
22	1.12	1.96	28	2.00	2.21
23	1.17	2.05	29	1.79	2.11
24	1.16	2.01	30	1.77	2.21
25	1.04	1.88	Dec. 1	2.19	2.56
26	1.22	1.98	2	2.20	2.52
27	1.55	2.10	3	2.28	2.76
28	1.63	2.06	4	2.19	2.67
29	1.57	1.88	5	2.07	2.74
30	.77	1.63	6	2.30	2.70
31	.67	1.30	7	1.93	2.45
Nov. 1	1.30	1.86	8	1.57	2.12
2	1.53	1.91	9	1.65	2.13
3	1.51	2.08	10	1.65	2.07
4	1.92	2.33	11	1.58	1.95
5	1.77	2.24	12	1.67	1.96
6	1.92	2.41	13	1.74	1.94
7	1.83	2.32	14	1.67	1.98
8	1.75	2.23	15	1.67	2.10
9	1.54	2.13	16	1.80	2.24
10	1.60	2.17	17	1.53	2.22
11	1.71	2.18	18	1.42	1.99
12	1.75	2.12	19	1.37	2.12
13	1.48	1.93	20	1.43	2.18
14	1.42	1.81	21	1.57	2.19
15	1.59	1.88	22	1.42	2.08
16	1.62	2.14	23	1.67	2.42
17	1.87	2.33	24	2.42	2.72
18	2.10	2.58	25	2.54	2.61
19	2.13	2.63	26	2.03	2.56
20	1.82	2.43	27	1.97	2.15
21	1.68	2.38	28	1.97	2.25
22	2.27	2.88	29	2.15	2.48
23	2.07	2.57	30	2.20	2.61
24	1.88	2.36	31	2.18	2.62

11. U. S. Dept. of Interior. 3 miles southwest of Panacea, at fire tower, on Ochlocknee Bay. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	8.26	Apr. 18	7.60	July 11	6.45	Oct. 24	7.63
Mar. 7	9.00	May 31	7.62	Sept. 12	7.58	Dec. 12	7.37

Walton County

10. Town of Freeport. In Freeport, SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 1 N., R. 19 W. Records available: 1947-49. Jan. 18, +9.0; Sept. 13, +8.5; Oct. 25, +7.5; Dec. 13, +9.0.

13. O. H. Saltsman. In Point Washington, in NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 1 S., R. 19 W., 10 feet south of pumphouse. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	+15.9	Apr. 19	+16.4	July 12	+17.0	Oct. 25	+15.5
Mar. 8	16.0	June 1	15.4	Sept. 13	16.0	Dec. 13	15.7

14. Walton County. In Point Washington, in NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 1 S., R. 19 W. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	+12.0	Apr. 19	+13.5	July 12	+15.9	Oct. 25	+11.6
Mar. 8	12.7	June 1	11.5	Sept. 13	12.0	Dec. 13	11.9

17. Citizens Oil Co. East of Freeport, on northern tip of Lagrange Bayou, in SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 1 N., R. 19 W. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	+31.3	Apr. 19	+31.3	July 12	+32.6	Oct. 25	+30.7
Mar. 8	30.6	June 1	30.7	Sept. 13	31.0	Dec. 13	29.8

19. U. S. Army. At Eglin auxiliary field 1, in building 1204, on corner of Ave. "A" and 1st St., in SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 16, T. 2 N., R. 21 W. Records available: 1947-49. Jan. 21, 187.4; Apr. 22, 137.3; June 4, 154.4; July 13, 154.4; Sept. 13, 137.4; Oct. 29, 140.9; Dec. 16, 152.6.

#### Washington County

4. Town of Carryville. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, T. 4 N., R. 16 W., 50 feet north of Louisville & Nashville railroad tracks, in pumphouse. Records available: 1946-49. Jan. 21, 10.60; Mar. 11, 10.25; Apr. 22, 9.60; June 4, 11.27; July 15, 10.19; Oct. 29, 13.06; Dec. 16, 12.89.

5. Town of Vernon. In Vernon, in NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 3 N., R. 15 W., in pumphouse under water tank. Records available: 1946-48. Measurements discontinued.

## GEORGIA

By G. H. Chase and S. M. Herrick

### PROGRAM OF WORK

Measurements of water level and artesian pressure in selected wells in Georgia begun in 1938 in cooperation with the State Department of Mines, Mining, and Geology, were continued in 1949. In 1938 the program covered three counties--Chatham, Dougherty, and Glynn. In 1943, it included 231 wells in 29 counties, 7 of which were in the northern part of the State. From 1944 through 1946 the observation-well program was maintained on virtually the same level as in 1943. In 1947 and 1948 the program was reduced; in 1949 it was maintained on the same level as at the end of 1948. In the future it is planned to hold the observation-well program at the 1949 level, around a total of 144 to 150 wells.

In 1949 automatic water-stage recorders were maintained on 3 wells during the entire year and on 2 wells for part of the year and 259 individual measurements of water level and artesian pressure were made in wells not equipped with water-stage recorders. Measurements on Baker County well 25 were made by the Emory University Field Station, as part of the hydrologic data collected in connection with its research on malaria control.

The observation-well program in the northern counties was begun in 1943 and consisted of 42 drilled and 2 dug wells. Since that time, measurements have been discontinued for 30 wells, which are divided among the counties as follows: Clayton, 3; Cobb, 10; DeKalb, 6; Fulton, 9; Henry, 1; Spalding, 1.

The following table lists all counties in Georgia for which records of water-level measurements are given in this report.



Observation well program, by counties, in 1949

County	Number at end of 1949	Tape measurements and pressure read- ings	Water stage recorders	
			Entire year	Part of year
Appling	1	2		
Baker	1		1	
Brantley	2	12		
Bryan	18	26		
Camden	10	14		
Charlton	1	2		
Chatham	39	81	1	
Clayton	3	5		
Cobb	10	20		
DeKalb	6	12		
Effingham	3	4		
Evans	1	3		
Fulton	9	14		1
Glynn	12	15	1	
Henry	1	3		
Liberty	7	13		
Long	1	2		
McIntosh	11	16		
Mitchell	1			
Montgomery	1	2		
Pierce	2	4		
Screven	2	4		
Spalding	1			1
Ware	1	2		
Wayne	3	3		
	147	259	3	2

The geologic map of Georgia shows the State divided into three major geologic provinces: the Paleozoic area, the Crystalline area, and the Coastal Plain. No observation wells have been established in the Paleozoic area, in the northwestern part of the State. The Crystalline area is considerably larger than the Paleozoic and lies south and east of it. Observation wells have been established and maintained in six counties that lie in the Crystalline area. Most of the wells are in the four counties in which the city of Atlanta and its environs are situated. The Coastal Plain is the largest of the three provinces and larger than the other two combined. It covers an area of about 35,000 square miles, about 60 percent of the entire area of the State. It embraces all that part of the State lying south of the Fall Line, which passes approximately through Columbus, Macon, Milledgeville, and Augusta, and marks the northern limit of the sedimentary rocks, which overlie the older crystalline rocks. More than 77 percent of the observation wells in Georgia are in this province. The Coastal Plain is underlain by water-bearing formations that range in age from Upper Cretaceous to Recent.

The observation wells in the Crystalline area of Georgia end in igneous and metamorphic rocks or surficial material weathered from them. Most of the observation wells in the Coastal Plain end in limestones of Oligocene or Eocene (late) age, which, as a unit, is the principal artesian aquifer in southeast Georgia. Chatham County well 343, a shallow well 12 miles southwest of Savannah, ends in deposits of Recent age and therefore serves to illustrate the fluctuation of the water table in formations of that age in this area.

#### FLUCTUATIONS OF WATER LEVELS

In wells in the Crystalline area water levels fluctuate from season to season with the precipitation. The water table stands highest with respect to the surface of the ground during the months of April and May, when the precipitation is greatest, and lowest in December and January, when the precipitation is least. The fluctuations also differ from well to well, the proximity of a well to a main drainage channel and its position in relation to the topography of the surrounding country determining, in large measure, the fluctuations of its water level. Other factors responsible for differences in fluctuation from well to well are depth and method of construction: dug wells seem to respond much more sharply to seasonal precipitation than drilled wells.

In the Coastal Plain water levels in wells ending in the principal limestone aquifer at the close of 1949 were uniformly lower, as compared with those during the previous December. In Savannah, in the center of heaviest pumpage, artesian water levels were approximately 0.3 foot lower during 1949 than during 1948. This condition is believed to be due to increased industrial pumpage. Accordingly, in 1949 the total metered pumpage in the Savannah area, which is the combined pumpage of the Savannah municipal waterworks and the Union Bag and Paper Corporation, increased by 425,980,300 gallons over that of 1948. December water levels in Chatham County as a whole, excluding the industrial area, showed an average decrease of about 1 foot as compared with those at the close of 1948. On Wilmington and Tybee Islands the average year-end decrease during 1949 amounted to 1.5 feet. In the southern part of Chatham County December water levels showed an average decrease of 0.92 foot. In the northern and northwestern parts of the county, year-end water levels had declined 1.4 feet and 1 foot, respectively, as compared with those of December 1948.

In Bryan and Liberty Counties year-end water levels averaged 0.5 foot and 0.8 foot, respectively, lower in 1949 as compared with 1948. In McIntosh, Glynn, and Camden Counties, average year-end water levels showed decreases of 0.6 foot, 0.5 foot, and 0.3 foot, respectively, as compared with December levels during 1948. For the year as a whole, excluding December 1949, water levels in the Brunswick area decreased about 0.5 foot as compared with those of 1948. During December 1949 water levels in the Brunswick area were the same as those recorded for December 1948, in spite of a large increase in industrial pumpage. Accordingly, the total metered pumpage in Brunswick, which is the combined pumpage of the Peoples Water Service Company, Brunswick Pulp and Paper Company, and the Hercules Powder Company, increased by 2,978,382,000 gallons during 1949 as compared with 1948. December water levels in Well 18, at St. Marys, were down 3.76 feet as compared with previous year-end levels. In the St. Marys area the total metered pumpage of the St. Marys Kraft Corporation increased by 300 million gallons during 1949 as compared with 1948. It is possible that well 18 is affected by local industrial pumping as well as by that in nearby Fernandina, Fla. Additional factors to be considered in the St. Marys area are those due to natural causes--up-dip recharge effects and tidal effects. Periodic measurements of well 18 would doubtless not represent true water-level conditions in this area. It is felt, that the St. Marys area is not yet affected by local industrial pumpage. Water levels in Brantley, Charlton, Pierce, and Wayne Counties were lower in 1949 as compared with 1948, ranging from 0.7 foot to 1.1 feet lower.

The decrease in water levels--approximately 0.3 foot--at the center of pumpage in the Savannah area is attributed to increased pumpage during 1949 as compared with 1948. Decreased year-end water levels in the remainder of coastal Georgia during 1949 are thought to be due to natural causes.

Chatham County well 343, 12 miles southwest of Savannah at the U. S. Plant Introduction Station is a dug well, 14.5 feet deep and shows the effect of precipitation. Water levels recorded in this well represent levels of the water table and not artesian water levels. The average daily water level during December 1949 was 2.2 feet lower than that of the previous December. Further, the annual daily average water level was 0.7 foot lower than that of 1948. The decreased water-levels are doubtless due

to decreased rainfall in this area during 1949 as compared with 1948. According to U. S. Weather Bureau records this area received 18 inches less rainfall in 1949 than in 1948.

All wells in north Georgia reflect water-table conditions, as well as effects of local precipitation. Because of lower precipitation during 1949, year-end water levels in this part of Georgia were uniformly lower. These decreases ranged from 0.40 foot to 2.8 feet. Year-end water levels in Fulton County well 26 were 3.28 feet lower in 1949 as compared with December levels in 1948. U. S. Weather Bureau reports show that precipitation during 1949 in the Atlanta area was off 25.43 inches as compared with 1948.

Spalding County well 12, at the Georgia State Experiment Station, is a dug well, 30.5 feet deep, and shows the effect of precipitation. By December 1949, water levels were down about 1 foot, as compared with water levels in 1948. Rainfall was off 14 inches during 1949 as compared with 1948.

#### WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

##### Appling County

3. Filtered Rosin Products Co. Near Baxley, 300 feet south of U. S. Highway 341. Records available: 1941-43, 1945-47, 1949. Aug. 13, 129.34; Dec. 13, 129.43. Measured 14 minutes after pump shut down.

##### Baker County

25. Emory University Field Station well 35. P. H. Thompson, Jr. About 3.6 miles west of Patmos, 1 mile east of Baker-Early County line, about 0.6 mile north of Pine Grove Church. Records available: 1941-49.

##### From recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.49	6.08	5.96	5.39	5.87	7.82	8.61	12.22	16.03	16.24	17.09	17.67
2	3.67	5.96	6.00	5.24	5.73	7.90	8.66	12.36	16.11	16.31	17.09	17.68
3	3.84	5.93	6.06	5.23	5.68	7.99	8.68	12.52	16.08	16.35	17.09	17.69
4	4.00	5.94	6.12	5.31	5.69	8.08	8.73	12.64	15.52	16.40	17.12	17.70
5	4.08	5.99	6.17	5.30	5.73	8.16	8.81	12.77	15.08	16.46	17.14	17.71
6	3.32	5.64	6.21	5.13	5.77	8.26	8.88	12.89	14.79	16.51	17.18	17.72
7	3.08	4.84	6.31	5.11	5.82	8.33	8.99	13.02	14.69	16.54	17.21	17.75
8	3.23	4.33	6.36	5.16	5.92	8.31	9.11	13.20	14.71	16.56	17.24	17.76
9	3.44	4.27	6.39	5.27	6.03	8.32	9.22	13.36	14.77	16.53	17.29	17.77
10	3.59	4.26	6.43	5.39	6.12	8.37	9.33	13.52	14.84	16.53	17.33	17.76
11	3.68	4.38	6.49	5.47	6.21	8.05	9.47	13.66	14.94	16.53	17.34	17.79
12	3.89	4.43	6.53	5.44	6.31	7.68	9.62	13.80	15.06	16.53	17.37	17.81
13	4.05	4.54	6.54	4.56	6.39	7.59	9.80	13.99	15.20	16.53	17.39	17.82
14	4.21	4.61	6.56	4.43	6.48	7.58	9.93	14.20	15.36	16.54	17.41	17.83
15	4.36	4.73	4.91	4.54	6.56	7.60	10.04	14.38	15.49	16.56	17.43	17.83
16	4.51	4.86	4.46	4.71	6.65	7.62	10.13	14.54	15.63	16.59	17.46	17.79
17	4.65	5.03	4.64	4.83	6.74	7.71	10.24	14.67	15.75	16.62	17.48	17.75
18	4.80	5.14	4.79	4.95	6.84	7.81	10.32	14.77	15.88	16.65	17.50	17.71
19	4.94	5.24	4.99	5.13	6.92	7.88	10.36	14.85	16.02	16.69	17.52	17.68
20	5.09	5.36	5.08	5.26	6.99	7.97	10.46	14.93	16.14	16.72	17.53	17.66
21	5.19	5.37	5.14	5.39	7.07	7.99	10.58	14.99	16.25	16.76	17.55	17.64

25--Continued.

## From recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
22	5.30	5.39	5.21	5.48	7.16	8.03	10.73	15.08	16.32	16.79	17.57	17.61
23	5.42	5.48	5.33	5.56	7.23	8.11	10.87	15.14	16.27	16.83	17.58	17.59
24	5.52	5.55	5.46	5.66	7.30	8.18	10.98	15.24	16.13	16.88	17.59	17.57
25	5.64	5.64	5.59	5.82	7.36	8.21	11.08	15.33	16.06	16.92	17.60	17.56
26	5.75	5.73	5.66	5.92	7.44	8.29	11.21	15.41	16.05	16.97	17.61	17.56
27	5.83	5.82	5.74	6.01	7.53	8.35	11.39	15.48	16.07	17.01	17.62	17.54
28	5.93	5.89	5.84	6.11	7.61	8.40	11.58	15.57	16.09	17.04	17.64	17.53
29	6.06		5.89	6.17	7.65	8.48	11.74	15.71	16.13	17.07	17.65	17.49
30	6.14		5.90	6.06	7.71	8.54	11.91	15.83	16.18	17.09	17.66	17.46
31	6.18		5.93		7.73		12.08	15.94		17.09		17.44

Brantley County

1. N. S. McVeigh. At Waynesville, on north side State Highway 50. Records available: 1939-43. No measurements made in 1949.

9. U. S. Government. About 1.4 miles north of Atlantic Coast Line Railroad, at Waynesville, about 0.1 mile east of country road from Waynesville to Browntown, at site of abandoned Civilian Conservation Corps camp. Records available: 1941-43, 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	2.15	Apr. 29	2.51	July 29	3.17	Oct. 29	2.62
Mar. 3	2.25	May 30	2.84	Aug. 29	3.04	Nov. 29	2.71
29	2.35	June 29	3.06	Sept. 29	2.51	Dec. 29	2.93

Bryan County

50. U. S. Dept. of the Army. At Clyde, about 100 feet southwest of intersection of State Highway 63 with county road. Records available: 1942-44. No measurements made in 1949.

51. U. S. Dept. of the Army. At Clyde, about 600 feet southwest of former site of schoolhouse. Records available: 1939-43. No measurements made in 1949.

52. U. S. Dept. of the Army. At Clyde, a short distance northeast of site of former schoolhouse. Records available: 1939-49. Aug. 10, +5.2; Dec. 9, +4.9.

55. U. S. Dept. of the Army. At Clyde, a short distance east of former site of old Bryan County courthouse. Records available: 1942-49. Aug. 10, 2.55; Dec. 9, 2.86.

63. U. S. Dept. of the Army. About 7 miles west of Richmond Hill, 4.5 miles north of Fleming, on east side of road connecting Bashlor's Bridge with U. S. Highway 17. Records available: 1940-41. No measurements made in 1949.

71. U. S. Dept. of the Army. On south side of River Road, 5.5 miles west of State Highway 63. Records available: 1940-41. No measurements made in 1949.

87. Henry Ford. At Richmond Hill, about 500 feet west of intersection of U. S. Highway 17 and Bryan Neck Road. Records available: 1939-49. Aug. 10, +0.19; Dec. 9, +0.29.

87a. Henry Ford. At Richmond Hill, about 500 feet west of intersection of U. S. Highway 17 and Bryan Neck Road. Records available: 1942-49. Aug. 10, 0.64; Dec. 9, 0.78.

96. J. W. Harden. About 1.7 miles south of Keller, about 300 feet east of Bryan Neck Road. Water level affected by tide. Records available: 1940-49. Aug. 10, +7.85; Dec. 9, +7.57.

119. Henry Ford. At Kilkenny, about 4.5 miles southeast of Keller. Water level affected by tide. Records available: 1939-47, 1949. Dec. 9, +7.35.

144. U. Butler. At Eldora, about 200 feet east of county road on north side of brick store. Records available: 1942-49. Aug. 9, 20.05; Dec. 8, 20.44.

146. L. W. Smith. About 2.25 miles northeast of Lanier, south side State Highway 30, at site of abandoned Civilian Conservation Corps camp. New measuring point, top of 6 $\frac{1}{4}$ -inch coupling on top of 6-inch casing, 1.0 foot above land-surface datum. Records available: 1941-49. Oct. 4, 21.19; Dec. 8, 22.29.

148. Henry Ford. In Keller, about 80 feet west of Bryan Neck Road, about 200 feet north of Belfast Road. Records available: 1940-49. Aug. 10, +5.05; Dec. 9, +4.94.

149. Henry Ford. About 5.5 miles southeast of Richmond Hill at the Jack Griswold Place. Records available: 1940-47, 1949. Aug. 10, +3.34; Dec. 9, +3.14.

150. Henry Ford. In Richmond Hill, 1 mile north of U. S. Highway 17, about 200 feet east of State Highway 63. Records available: 1940-49. Aug. 10, +9.21; Dec. 9, +8.97.

151. Henry Ford. About 0.9 mile west of Keller, on west bluff of Tivoli River, north side of Belfast Road. Records available: 1941-49. Aug. 10, +6.05; Dec. 9, +6.12.

161. Henry Ford. At Kilkenny, about 4.5 miles southeast of Keller, about 300 feet north of clubhouse near edge of marsh at oyster house. Water level affected by tide. Records available: 1941-47, 1949. Dec. 9, +10.99.

171. Deal & Purvis. In Belfast, about 110 feet east of bluff, near center of nearly right-angled bend in Belfast River. Water level affected by tide. Records available: 1942-49. Aug. 10, +7.08; Dec. 9, +7.43.

#### Camden County

8. M. L. Hill. In Kingsland. Records available: 1939-49. Aug. 12, +22.55; Dec. 12, +22.68.

12. J. J. Godley. In Kingsland, about 300 feet north of St. Marys Road, on west side of U. S. Highway 17. Records available: 1939-49. Aug. 12, +22.52; Dec. 12, +23.11.

18. L. O. Harris. In St. Marys, about 0.8 mile north of Riverview Hotel, on east side of State Highway 40. Records available: 1939-49. Aug. 12, +26.88; Dec. 12, +25.26.

59. Zack Colson. About 3.5 miles southeast of Woodbine, 0.6 mile south of Satilla River. Records available: 1939-46, 1949. Aug. 12, +29.58.

61. Camden Properties. In Billysville, 2 miles east of Coleburg, at west end of tenant quarters. Records available: 1939-47. No measurement made in 1949.

68. Kings Bay Club. At Kings Bay, about 10 miles east of Kingsland and about 4 miles north of St. Marys. Records available: 1939-47, 1949. Dec. 12, +41.73.

78. White Oak public school. On west side of Seaboard Railway, at schoolhouse. Records available: 1939-46. No measurements made in 1949.

92a. Camden Race Track. About 2.2 miles southeast of Kingsland, on north side of St. Marys Road, at race track. Records available: 1939-49. Aug. 12, +32.18; Dec. 12, +32.46.

118. Oscar Silcox. About 9.5 miles west of Kingsland, on old Folkston Road, about 0.1 mile south of road. Records available: 1939-49. Aug. 12, +38.48; Dec. 12, +38.82.

144. T. C. Haygood. In Woodbine, on east side of U. S. Highway 17, 0.5 mile south of road to Folkston. Records available: 1939-49. Aug. 12, +33.38; Dec. 12, +34.87.

#### Charlton County

7. State of Georgia. One mile southwest of Folkston, at State convict camp. Records available: 1941-49. Aug. 12, 14.55; Dec. 12, 14.19.

#### Chatham County

8. City of Savannah. In Savannah, on west side of Stiles Avenue, about 600 feet south of Louisville Road. Records available: 1939-48. Measurements discontinued.

28. Reliance Fertilizer Co. In Savannah, about 200 feet south of Louisville Road, 2 miles west of West Broad Street. Records available: 1939-44. No measurement made in 1949.

29. Port Wentworth Corporation. In Port Wentworth, about 300 feet east of U. S. Highway 17, near elevated steel tank. Records available: 1939-43. No measurements made in 1949.

30. Dixie Asphalt Corporation. Near west bank of Savannah River, 1 mile northeast of U. S. Highway 17 and 3.4 miles northwest of Savannah city hall. Records available: 1939-49. Apr. 9, 65.58; Dec. 10, 60.62. Measured 4 minutes after pump was shut down.

43. Southern Cotton Oil Co., well 215A. South well 40 feet north of Lathrop Avenue, 1,200 feet southwest of southwest bank of Savannah River, 1.75 miles northwest of Savannah city hall. Records available: 1940-49. Dec. 8, 71.88.

46. Union Bag & Paper Corporation well 5. About 800 feet southwest of Savannah River, 2.4 miles northwest of Savannah city hall. Used more or less continuously. Measurements furnished through courtesy of Union Bag & Paper Corporation. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	113.6	Mar. 10	121.6	June 2	125.6	Oct. 6	127.6
20	127.6	24	125.6	23	122.6	20	127.6
Feb. 3	122.6	Apr. 7	127.6	Aug. 4	122.6	Nov. 3	127.6
10	125.6	21	127.6	18	125.6	17	125.6
18	127.6	May 5	122.6	Sept. 8	127.6	Dec. 1	125.6
24	125.6	26	122.6	22	125.6	15	123.6

47. National Gypsum Co. Near west bank of Savannah River, 1 mile northeast of U. S. Highway 17, 3.25 miles northwest of Savannah city hall. Records available: 1939-43. No measurement made in 1949.

48. U. S. Government. Savannah Army Service Forces Depot. West bank of Savannah River, 3.8 miles northwest of Savannah city hall. Records available: 1940-43. No measurement made in 1949.

63. Colonial Ice Co. In Savannah, 5 feet northwest of McGuire Street about 105 feet northwest of Indian Street. Records available: 1939-49. Aug. 9, 78.55; Dec. 8, 69.92.

76. Pierpont Manufacturing Co. About 600 feet southwest of Savannah River, 2.1 miles northwest of Savannah city hall. Records available: 1939-49. Aug. 9, 89.76; Dec. 10, 79.50.

81. Gordon Saussy. Near west bank of Savannah River, 5.3 miles northwest of Savannah city hall, south of Savannah sugar refinery. Records available: 1940-49. Aug. 9, 49.12; Dec. 10, 48.17.

84. Standard Oil Co. About 150 feet south of Savannah River, 2.9 miles east of Savannah city hall. Records available: 1940-49. Aug. 10, 33.95; Dec. 8, 31.09.

86. Southern Cotton Oil Co. Well 2150. In Savannah, about 180 feet north of Lathrop Avenue property line, about 1,050 feet south of Savannah River, 1.8 miles northwest of Savannah city hall. Records available: 1940-47, 1949. Aug. 9, 92.76, pumping.

100. Producers Cooperative Association. In Savannah, about 1.1 miles east-southeast of Savannah city hall, 1,000 feet south of Savannah River, about 100 feet north of west end of main building. Records available: 1944-49. Aug. 10, 41.11; Dec. 8, 35.97.

109. Georgia State Highway Department. South of west abutment of Savannah River bridge on U. S. Highway 17, 7 miles northwest of Savannah. Records available: 1938-49. Aug. 9, 20.68; Dec. 10, 19.96.

112. Mrs. L. O. Givern. In Bloomingdale, about 200 feet north of Central of Georgia Railway station, about 90 feet west of Town Street. Records available: 1938-49. Aug. 9, 3.87; Dec. 8, 4.04.

117. U. S. Dept. of the Army. At Fort Screven, on Tybee Island. About 300 feet south of old lighthouse. Records available: 1939-43. No measurement made in 1949.

121. Robert Schneider. About 50 feet north of Tybee Road, in northwestern part of Tybee Island. Records available: 1939-49. Aug. 10, 6.27; Dec. 9, 6.96.

122. Georgia State Highway Department. Near southwest end of steel truss bridge over Bull River on Tybee Road, 7 miles east of Savannah. Records available: 1940-49. Aug. 10, 15.03; Dec. 9, 14.50.

123. Harry Walthour Estate. On Wilmington Island, on southwest side of dirt road, about 0.5 mile south of Tybee Road. Records available: 1939-49. Aug. 10, 12.42; Dec. 9, 11.41.

128a. Southeastern Medical Center. On Oatland Island, about 4 miles southeast of Savannah, 200 yards east of main building. Records available: 1947. No measurement made in 1949.

131. C. E. Oliver. On east side of State Highway 21, 0.8 mile northwest of crossing of Atlantic Coast Line Railroad at Monteith. Records available: 1938-49. Aug. 9, 11.65; Dec. 9, 11.50.

134. J. C. Sheffield. 4 miles south of Savannah, about 100 feet southwest of intersection of Waters Avenue and Montgomery Road. Records available: 1938-49. Aug. 10, 33.60; Dec. 9, 31.50.

137. C. P. Rowland. In northern part of Montgomery, on east side of Ferguson Avenue. Records available: 1938-47. No measurements made in 1949.

145. A. G. Gillespie. On north side of U. S. Highway 17, 0.25 mile east of Little Ogeechee River. Records available: 1939-49. Aug. 10, 1.56; Dec. 9, 1.17.

169. L. J. Carter. On north side of Pine Barren Road, 2.75 miles east of Ogeechee River. Records available: 1940-49. Aug. 9, 6.80; Dec. 8, 6.70.



174. Mrs. Eda W. Sapp. About 750 feet north of Pine Barren Road, 0.5 mile east of Ogeechee River. Records available: 1940-49. Aug. 9, +6.40; Dec. 8, +6.00.

194. Mrs. W. W. Keller, Sr. At Drakie's Bluff, on west bank of Savannah River, about 8 miles northwest of Savannah. Records available: 1939-49. Aug. 9, 23.85; Dec. 10, 23.39.

213. J. L. Budreau. At intersection of Burroughs Road and U. S. Highway 17. Records available: 1939-49. Aug. 10, 1.60; Dec. 9, 1.71.

266. J. F. Chisholm. 1 mile east of Augusta Road, 3.5 miles north of Monteith. Records available: 1940-49. Aug. 9, 7.72; Dec. 10, 8.28.

269. J. W. Pierpont Estate. Isle of Hope. Deep-well turbine pump installed over well. New measuring point, hole at base of pump, 1.6 feet above land-surface datum. Water level affected by tide. Records available: 1940-49.

Date	Elevation of tide in Skidaway River, in feet below measuring point	Water level in well, in feet below land-surface datum
Aug. 10	9.77	17.99
Dec. 9	16.41	18.18

273. C. A. Gross. On west side of Isle of Hope Road, 1.5 miles north of Isle of Hope. Records available: 1939-49. Aug. 10, 26.40; Dec. 9, 24.20.

279. J. B. Pound Hotel Corporation. On Wilmington Island, at General Oglethorpe Hotel. Records available: 1940-49. Aug. 10, 24.88; Dec. 9, 22.23.

314. J. M. Breckenridge. About 600 feet west of White Bluff Road, 0.3 mile north of Buckhalter Road. Records available: 1940-49. Aug. 10, 35.78; Dec. 9, 35.56.

321. R. C. Hinley. About 8.25 miles south of Savannah city hall, 100 feet north of Vernonburg Avenue, 0.1 mile east of White Bluff Road. Records available: 1940-49. Aug. 10, 14.60; Dec. 9, 14.04.

328. U. S. Dept. of the Army. At Fort Screven, on Tybee Island. Records available: 1940-49. Aug. 10, 10.40; Dec. 9, 10.87.

330. State Highway Department. On southeast side of U. S. Highway 17, 6 miles southwest of Savannah. Records available: 1941-47, 1949. Dec. 10, 3.63.

331. J. E. Poythress. At Jelma Inn, about 13 miles northwest of Savannah, 0.4 mile southeast of Chatham-Effingham County line, along State Highway 21, about 50 feet northeast of highway. Records available: 1942-49. Aug. 9, 12.82; Dec. 10, 13.71.

332. Louis Lucas. In Bloomingdale, about 50 feet north of U. S. Highway 80, 0.3 mile east of Bloomingdale crossroads. Records available: 1942-47. No measurements made in 1949.

343. U. S. Dept. of Agriculture. At Barbour Lathrop Plant Introduction Station, about 12 miles southwest of Savannah, about 200 feet northeast of Fort Argyle Road. Records available: 1942-49.

From recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	5.22	4.34	5.56	6.26	8.11	4.31	....	4.83	4.16	5.02	6.46
2	....	5.22	4.38	5.63	6.26	8.00	4.35	6.88	4.38	4.22	4.88	6.49
3	3.95	5.20	4.44	5.65	6.29	7.95	4.43	6.99	3.71	4.30	4.81	6.57
4	4.02	5.15	4.49	5.72	6.33	7.92	4.52	7.06	2.79	4.37	4.85	6.58
5	4.04	4.91	4.54	5.59	6.34	7.89	4.52	7.12	1.49	4.43	4.92	....

343--Continued.

## From recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	4.09	4.48	4.58	5.42	6.38	6.91	4.57	7.20	1.93	4.23	5.03	....
7	4.14	4.30	4.67	5.27	6.42	6.98	4.64	7.27	2.15	4.16	5.10	6.65
8	4.21	3.92	4.71	5.20	6.49	7.09	4.73	7.36	2.34	4.10	5.18	6.68
9	4.28	3.84	4.74	5.23	6.56	7.12	4.82	7.44	2.50	4.11	5.25	6.70
10	4.34	3.83	4.78	5.28	6.60	4.32	4.90	7.50	2.63	4.20	5.32	5.78
11	4.38	3.79	4.87	5.30	6.65	3.79	5.00	7.54	2.77	4.26	5.38	6.86
12	4.42	3.82	4.92	5.32	....	3.06	5.10	7.59	....	4.35	5.45	6.89
13	4.49	3.87	4.97	5.33	....	3.18	5.20	7.65	....	4.45	5.50	6.93
14	4.53	3.86	5.04	5.41	....	3.33	5.31	7.72	3.14	4.53	5.55	6.99
15	4.61	3.93	5.04	5.48	....	3.03	5.43	7.80	3.25	4.55	5.60	7.01
16	4.64	3.99	5.07	5.56	....	3.03	....	7.86	2.99	4.63	5.65	7.06
17	4.70	4.08	5.05	5.65	7.00	3.25	....	....	3.18	4.74	5.70	7.09
18	4.75	4.12	5.05	5.70	7.06	3.43	5.52	....	3.33	4.79	5.75	7.06
19	4.79	4.13	5.14	5.77	7.10	3.58	5.56	8.01	3.44	4.85	5.82	7.01
20	4.85	4.03	5.17	5.84	7.14	3.70	5.60	8.08	3.53	4.93	5.84	6.93
21	4.87	3.90	5.17	5.88	7.21	3.77	5.68	8.13	3.62	5.00	5.91	6.92
22	4.91	3.90	5.18	5.92	7.30	3.76	5.76	8.02	3.63	5.07	6.01	6.90
23	4.95	3.96	5.22	5.96	7.38	3.87	5.84	7.95	3.42	5.14	6.03	6.95
24	4.98	4.03	5.27	5.97	7.44	3.98	5.93	7.93	3.58	5.20	6.06	7.07
25	5.04	4.10	5.32	6.07	7.47	4.06	6.02	7.99	3.72	5.26	6.08	7.05
26	5.06	4.19	5.34	6.09	7.52	4.14	6.11	8.04	3.80	5.33	6.20	6.98
27	5.09	4.24	5.37	6.12	7.58	4.24	6.22	8.05	3.85	5.40	6.21	6.89
28	5.12	4.27	5.42	6.16	7.63	4.34	6.33	4.84	3.91	5.45	6.29	6.85
29	5.18		5.47	6.23	7.69	4.22	6.43	4.33	3.98	5.51	6.31	6.82
30	5.20		5.49	6.26	7.77	4.25	6.54	4.56	4.08	5.39	6.37	6.79
31	5.16		5.52		8.31		6.64	4.62		5.17		6.79

Clayton County

7. H. P. Ideuppo. At Forest Park, about 0.5 mile south of highway bridge over Central of Georgia Railway and 43 feet west of center of U. S. Highway 41. Records available: 1943-49. Aug. 5, 25.60; Dec. 15, 32.40.

26. A. C. Crane. At Forest Park, about 3 miles south of Fulton-Clayton County line along U. S. Highway 41 and 100 feet south of tourist court on east side of highway. Records available: 1943-49. Aug. 5, 25.76; Dec. 15, 27.59.

27. J. L. Paul. In vicinity of city of Forest Park, about 4.0 miles south of Fulton-Clayton County line along U. S. Highway 41 and 150 feet east of center of highway. Records available: 1943-49. Aug. 5, 34.17.

Cobb County

5. City of Smyrna. At Smyrna, about 340 feet west of center of Whitfield Street, in open field. Records available: 1943-48. Measurements discontinued.

6. City of Smyrna. At Smyrna, at junction of Old Roswell, New Roswell, and Highland Roads. Records available: 1943-48. Measurements discontinued.

11. Mrs. J. H. Carmichael. At Oakdale, about 0.8 mile northwest of Log Cabin Drive underpass under Georgia Power Co. electrical railway and 102 feet east of center of Log Cabin Drive. Records available: 1943-49. Aug. 4, 23.29; Dec. 16, 25.51.

14. J. A. Rust. At Smyrna, about 1.75 miles along U. S. Highway 41 northwest of Locust Grove Baptist Church in Oakdale, and 250 feet west of center of U. S. Highway 41. Records available: 1943-49. Aug. 4, 39.81, pumping; Dec. 16, 43.0, pumping.

21. Lewis Ray. At Oakdale, on U. S. Highway 41 about 0.45 mile north of highway bridge over Nashville, Chattanooga & St. Louis Railway, and about 42 feet east of center of highway. Records available: 1943-49. Aug. 4, 29.7; Dec. 16, 30.56.
25. J. T. Cox. At Oakdale, on Log Cabin Drive, about 0.34 mile northwest of underpass under Georgia Power Co. electrical railway, and 300 feet west of center of Log Cabin Drive. Records available: 1943-49. Aug. 4, 15.05; Dec. 16, 9.29.
27. R. D. Webb. At Oakdale, on Log Cabin Drive, about 0.45 mile northwest of underpass under Georgia Power Co. electrical railway approximately 150 feet north of center of Log Cabin Drive. Records available: 1943-49. Aug. 4, 18.25; Dec. 16, 20.42.
52. C. C. Johnson. At Oakdale, about 0.2 mile north of Southern Railway along Oakdale Road and 100 feet west of center of road. Records available: 1943-49. Aug. 4, 13.32; Dec. 16, 14.86.
71. D. W. Cook. At Oakdale, about 0.1 mile east of Camp Highland road and approximately 27 feet northeast of northeast corner of dwelling. Records available: 1943-49. Aug. 4, 52.13; Dec. 16, 53.42.
74. A. P. Hogan. At Marietta, about 0.55 mile southeast of intersection of State Highways 3E and 220, on State Highway 3E and 28 feet southwest of southwest corner of dwelling. Records available: 1943-49. Aug. 4, 45.39; Dec. 16, 46.27.
83. National Park Service, U. S. Dept. of Interior. At Kennesaw Mountain National Park, about 0.55 mile west of U. S. Highway 41, and 250 feet north of center of east-west road. Records available: 1943-49. Aug. 4, 4.16; Dec. 16, 4.40.
85. D. C. Hames. Near Kennesaw Mountain National Park, on U. S. Highway 41, about 0.4 mile northwest of highway bridge over Nashville, Chattanooga & St. Louis Railway, 45 feet east of center of highway. Records available: 1943-49. Aug. 4, 22.65; Dec. 16, 24.20.
- DeKalb County
17. Mrs. J. H. Anderson. In Atlanta, on U. S. Highway 42, about 0.55 mile south of highway bridge over Southern Railway, 98 feet east of center of highway. Records available: 1943-49. Aug. 5, 30.75; Dec. 15, 35.62.
29. Mrs. A. H. Daniel. In Decatur, about 0.75 mile north of intersection of Glenwood Road and Columbia Drive, about 75 feet east of center of Columbia Drive and 85 feet west of private dwelling. Records available: 1944-49. Aug. 4, 37.09; Dec. 15, 38.40.
34. I. W. Williams. In Panthersville, about 0.35 mile west of intersection of Candler and Flat Shoals Roads and about 150 feet south of center of Flat Shoals Road, on top of hill. Records available: 1944-49. Aug. 4, 43.04; Dec. 15, 46.47.
39. L. N. Fassett. In Decatur, about 0.45 mile north of intersection of Columbia Drive and Glenwood Road, 138 feet east of center of Columbia Drive, and about 22 feet southeast of southeast corner of private dwelling. Records available: 1944-49. Aug. 4, 35.47; Dec. 15, 38.52.
40. Lamar Westfall. In Decatur, about 0.75 mile east of intersection of Glenwood and Candler Roads, 370 feet south of center of Glenwood Road, in bottom of valley, and 55 feet west of west side of outdoor concrete swimming tank. Records available: 1944-49. Aug. 4, 15.15; pumping; Dec. 15, 2.68.
50. Miss A. M. Lyle. In Atlanta, about 2.43 miles south of intersection of Moreland Avenue and Memorial Drive, 125 feet east of center of Moreland Avenue, and 15 feet southeast of southeast corner of private dwelling. Records available: 1944-49. Aug. 4, 33.69; Dec. 15, 33.92.

Effingham County

6. W. B. Butler. In Eden, on east side of U. S. Highway 80, about 0.3 mile northwest of crossing of Central of Georgia Railway and U. S. Highway 80. Records available: 1941-49. Aug. 9, 2.04; Dec. 8, 1.49.

7. Central of Georgia Railway. In Meldrim, between Central of Georgia Railway and Seaboard Air Line Railway, about 200 feet west of station. Records available: 1940-44. No measurements made in 1949.

20. J. D. Hagin. In Pineora, 3 miles south of Guyton, 0.2 mile west of Central of Georgia Railway. Records available: 1941-49. Aug. 9, 38.64; Dec. 8, 39.23.

Evans County

3. City of Claxton. At Claxton, at city waterworks plant, about 300 feet south of Seaboard Air Line Railway. Records available: 1940-49. Aug. 9, 111.92; Oct. 4, 112.07; Dec. 8, 111.99.

Fulton County

7. City of College Park. In College Park, at base of west side of large steel filter tank, at city waterworks. Records available: 1943-49. Aug. 5, 33.04; Dec. 15, 32.47.

8. City of College Park. At College Park, about 30 feet north of Oglethorpe Street extended. Records available: 1943-46, 1948. No measurements made in 1949.

20. City of East Point. At East Point on Plant Street, about 0.1 mile south of Taylor Avenue, 38 feet east of center of street. Records available: 1943-49. Aug. 5, 24.01; Dec. 15, 24.09.

26. O'Neill Bros. At East Point, about 98 feet east of Central of Georgia Railway and 6 feet west of O'Neill Bros. warehouse. Records available: 1943-49.

From recorder charts

Day	Jan.	Feb.	Mar.	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	13.85	13.26	.....	15.14	15.74	16.32	.....
2	.....	13.83	.....	.....	15.21	15.74	16.3	.....
3	.....	13.77	.....	.....	15.24	15.74	16.33	.....
4	.....	13.6	.....	.....	15.25	15.74	16.36	.....
5	.....	13.51	.....	.....	15.26	.....	16.41	.....
6	.....	13.45	.....	.....	15.19	.....	16.47	17.23
7	.....	13.5	.....	.....	15.01	.....	16.46	17.2
8	.....	13.67	.....	.....	14.92	.....	16.51	17.31
9	.....	13.57	13.32	.....	14.96	.....	16.53	.....
10	.....	.....	13.25	.....	15.04	15.97	16.54	.....
11	.....	.....	13.31	.....	15.1	15.96	16.55	.....
12	.....	.....	13.3	.....	15.08	15.97	16.58	.....
13	.....	.....	13.32	.....	15.07	16.04	16.57	.....
14	.....	.....	13.32	.....	15.13	16.08	16.61	17.38
15	.....	.....	13.42	.....	15.17	16.04	16.64	17.36
16	.....	.....	13.47	.....	15.2	16.09	16.71	17.35
17	13.54	13.33	.....	.....	15.29	16.05	16.75	17.33
18	13.53	13.26	.....	.....	15.31	16.04	16.78	17.24
19	13.64	13.07	.....	.....	15.31	16.04	16.79	17.31
20	13.71	13.22	.....	.....	15.33	16.09	16.76	.....
21	13.71	13.25	.....	.....	15.38	16.13	16.84	17.33
22	13.73	13.21	.....	.....	15.35	16.14	16.9	17.28
23	13.73	13.22	.....	.....	15.4	16.19	16.86	17.45
24	13.81	13.18	.....	.....	15.48	16.18	16.79	17.49
25	13.88	13.25	.....	.....	15.52	16.25	16.86	17.42
26	13.86	13.26	.....	.....	.....	16.33	16.91	17.35
27	13.79	13.17	.....	.....	15.52	16.36	16.91	17.36
28	13.82	13.25	.....	.....	15.51	16.35	16.94	.....
29	14.04	.....	.....	.....	15.56	16.36	.....	.....
30	14.05	.....	.....	.....	15.71	16.31	.....	.....
31	13.87	.....	.....	15.06	.....	.....	.....	.....

31. City of East Point. At East Point, about 0.25 mile southwest of junction on Semmes Street and Neely Avenue and 15 feet south of small surface stream. Records available: 1943-49. Aug. 5, 11.89; Dec. 15, 12.62.

32. International Minerals & Chemical Corporation. At East Point, about 0.25 mile south of junction of Taylor Avenue and Central Street and 52 feet east of main fertilizer shed. Records available: 1943-49. Aug. 5, 18.57; Dec. 15, 31.10.

43. American Agriculture & Chemical Co. At East Point, about 130 feet northeast of center of Central Street and 28 feet east of fertilizer shed. Records available: 1943-49. Aug. 5, 31.64; Dec. 15, 21.76.

75. Pure Oil Co. At Bolton, about 140 feet north of intersection of Bolton Road and U. S. Highway 78, 50 feet east of center of Bolton Road and 8 feet east of northeast corner of shed. Records available: 1944-49. Aug. 4, 28.68; Dec. 16, 32.27.

77. Mrs. Cory C. Helms. At Bolton, about 0.1 mile north of intersection of Bolton Road and U. S. Highway 78, 95 feet east of center of Bolton Road. Records available: 1943-49. Aug. 4, 20.30; Dec. 16, 21.72.

#### Glynn County

1. Atlantic Refining Co. well 1. In Arco, northwest of Brunswick, about 1,000 feet west of U. S. Highway 17, about 1,400 feet northwest of office of Atlantic Refining Co. Records available: 1940-42. No measurements made in 1949.

3. Atlantic Refining Co. well 3. At Arco, about 1 mile north of Brunswick, about 1,100 feet southwest of office of Atlantic Refining Co. Records available: 1938-49.

#### High and low daily water levels, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	+24.6	+24.0	+24.1	+23.6	+24.1	+23.8	+24.9	+23.9	+25.2	+24.4	+24.6	+23.5
2	+24.7	+23.9	+23.8	+23.5	+24.2	+23.7	+24.7	+23.9	+25.2	+24.1	+24.7	+23.7
3	+25.0	+24.1	+24.1	+23.6	+24.6	+23.7	+25.1	+24.2	+25.0	+24.1	+24.7	+23.6
4	+24.9	+24.4	+24.6	+23.9	+24.6	+23.7	+24.9	+24.0	+25.5	+24.2	+25.1	+23.8
5	+25.1	+24.5	+24.1	+23.9	+24.9	+23.7	+24.8	+24.1	+25.4	+24.1	+24.9	+23.8
6	+24.7	+24.5	+24.2	+23.8	+25.0	+23.9	+25.1	+24.3	+25.6	+24.4	+24.7	+23.9
7	+25.0	+24.0	+24.4	+24.0	+24.5	+23.7	+25.5	+24.2	+25.5	+24.4	.....	.....
8	+25.0	+23.9	+24.4	+24.0	+24.6	+23.7	+25.7	+24.3	+25.0	+24.4	.....	.....
9	+25.0	+24.0	+24.7	+24.1	+25.0	+24.0	+24.8	+24.3	.....	.....	+24.3	+23.6
10	+25.0	+24.3	+24.5	+23.5	+24.8	+23.8	+25.1	+24.3	.....	.....	+24.0	+23.4
11	+25.1	+24.4	+23.9	+23.4	+24.6	+23.7	+24.8	+24.4	.....	.....	.....	.....
12	+24.8	+24.4	+24.2	+23.4	+24.7	+23.6	+25.2	+24.4	+25.9	+23.9	+23.9	+23.4
13	+24.7	+24.0	+24.2	+23.3	+24.6	+23.6	+25.1	+24.7	+24.8	+24.0	+24.5	+23.4
14	+24.6	+23.8	+24.6	+23.5	+24.5	+23.3	+25.3	+24.4	+24.8	+23.8	+24.1	+23.6
15	+24.7	+23.9	+24.3	+24.1	+24.6	+23.6	+25.2	+24.3	+24.8	+23.8	+24.3	+23.7
16	+24.8	+24.0	+24.7	+23.8	+24.2	+23.7	+24.7	+23.8	+24.8	+23.8	+24.7	+23.7
17	+24.7	+24.1	+24.4	+23.4	+24.9	+23.8	+24.5	+23.7	+24.8	+23.8	.....	.....
18	+24.9	+24.1	+24.3	+23.5	+25.0	+23.8	+25.0	+24.1	.....	.....	+24.3	+23.3
19	+24.7	+24.1	+24.6	+23.8	+24.0	+23.6	+25.5	+24.0	+24.8	+23.7	+24.2	+23.2
20	+24.4	+23.6	+24.7	+23.6	+24.0	+23.7	+24.5	+24.0	+25.1	+23.8	+24.1	+23.3
21	+24.1	+23.6	+24.4	+23.7	+24.6	+23.7	+24.6	+24.1	+24.9	+23.9	+24.0	+23.3
22	+24.1	+23.4	+24.6	+23.3	+24.8	+23.9	+25.0	+24.1	+24.8	+23.8	+24.3	+23.2
23	+24.5	+23.7	+24.5	+23.7	+25.0	+24.1	+25.5	+24.3	+24.7	+23.8	+24.5	+23.6
24	+24.9	+24.1	+24.3	+23.7	+26.0	+24.1	.....	.....	+24.7	+23.7	+24.0	+23.5
25	+24.4	+23.3	+24.4	+23.7	+24.8	+24.2	.....	.....	+24.7	+23.7	+24.0	+23.4
26	+24.3	+23.7	+24.1	+23.7	+24.9	+24.2	+24.9	+24.4	+24.3	+23.6	+23.9	+23.4
27	+24.5	+24.1	+24.2	+23.8	+25.1	+24.6	+25.4	+24.5	+24.7	+23.6	+29.0	+23.3
28	+24.6	+24.0	+24.9	+23.8	+25.0	+24.0	+25.3	+24.6	+24.2	+23.7	.....	.....
29	+24.0	+23.4			+24.6	+23.9	+25.3	+24.2	+24.2	+23.5	+24.3	+23.4
30	+24.0	+23.4			+24.7	+23.9	+25.0	+24.5	+24.5	+23.7	+24.4	+23.4
31	+24.5	+23.9			+24.7	+24.1			+24.1	+23.8		

## 3--Continued.

## High and low daily water levels, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	+23.7	+23.3	+25.8	+25.3	+24.6	+23.9	+24.3	+23.9	+24.5	+24.0	+24.5	+23.9
2	+23.8	+23.3	+25.1	+23.9	+24.0	+23.4	+24.4	+23.9	+24.7	+24.2	+24.3	+23.7
3	+24.0	+23.3	+24.2	+23.8	+24.4	+23.8	+24.3	+23.9	+24.7	+24.2	+24.1	+23.6
4	+24.0	+23.5	+23.8	+23.3	+24.8	+24.0	+24.6	+23.9	+24.6	+24.1	+24.1	+23.6
5	+24.5	+23.5	+24.5	+23.2	+24.8	+23.9	+24.7	+24.1	+24.6	+24.1	+24.2	+23.8
6	+24.7	+23.7	+24.2	+23.3	+24.9	+23.8	+24.7	+24.1	+24.6	+24.1	+24.4	+23.8
7	+24.7	+23.7	+24.1	+23.3	+24.9	+23.9	+24.7	+24.0	+24.7	+24.1	+24.6	+24.0
8	+23.9	+23.5	+23.9	+23.3	+24.8	+23.9	+24.5	+23.9	+24.7	+24.2	+24.7	+24.2
9	+23.9	+23.1	+23.8	+23.2	+24.6	+23.9	+24.5	+24.0	+24.8	+24.4	+24.3	+23.7
10	+24.4	+23.2	+24.1	+23.2	+24.6	+23.9	+24.7	+24.1	+24.8	+24.4	+24.5	+23.7
11	+24.0	+23.3	+23.6	+23.2	+24.6	+24.1	+24.5	+24.0	+24.3	+24.1	+24.6	+23.7
12	.....	.....	+23.7	+23.0	+24.6	+23.9	+24.8	+24.3	+24.8	+24.1	+24.8	+23.8
13	.....	.....	+23.8	+23.3	+24.8	+23.8	+24.8	+24.2	+24.9	+24.2	+25.6	+23.8
14	.....	.....	+23.8	+23.2	+25.1	+24.2	+24.8	+24.1	+24.8	+24.2	+25.4	+23.8
15	.....	.....	+23.8	+22.9	+25.4	+24.2	+25.4	+24.2	+25.2	+24.4	+24.3	+23.5
16	.....	.....	+24.0	+22.9	+25.6	+24.1	+24.8	+24.4	+24.7	+24.1	+24.2	+23.5
17	.....	.....	+24.3	+23.3	+25.1	+24.1	+25.1	+24.0	+24.6	+24.0	+24.3	+23.4
18	.....	.....	+24.5	+23.5	+25.6	+24.0	+24.9	+23.9	+24.5	+23.9	+24.4	+23.6
19	.....	.....	+24.6	+23.5	+25.3	+24.0	+24.9	+24.1	+24.5	+23.8	+24.4	+23.5
20	+24.6	+23.6	+24.2	+23.5	+24.3	+23.9	+24.9	+24.2	+24.6	+23.9	+24.4	+23.5
21	+24.1	+23.7	+23.9	+23.5	+24.4	+23.8	+24.8	+24.1	+24.6	+23.9	+24.3	+23.7
22	+24.2	+23.6	+23.7	+23.1	+24.4	+23.8	+24.9	+24.1	+24.3	+23.6	+24.8	+23.8
23	+24.1	+23.5	+23.9	+23.4	+24.5	+23.7	+24.8	+24.1	+24.4	+23.7	+24.2	+23.6
24	+23.7	+22.7	+24.1	+23.6	+24.6	+23.8	+25.1	+24.1	+24.6	+23.9	+29.2	+23.9
25	+23.8	+23.0	+24.0	+23.6	+24.6	+23.8	+25.0	+24.1	+24.6	+23.9	+29.8	+29.2
26	+27.7	+23.2	+24.0	+23.6	+24.2	+23.8	+25.3	+24.1	+24.5	+23.8	+30.2	+28.3
27	+28.7	+27.6	+26.8	+23.7	+24.4	+23.8	+24.8	+24.0	+24.7	+23.8	+28.2	+25.4
28	+28.2	+24.7	+29.0	+27.3	+24.7	+24.0	+24.6	+24.0	+24.6	+23.8	+25.4	+24.7
29	+24.7	+23.7	+25.3	+25.0	+24.7	+24.0	+24.7	+24.1	+24.6	+24.3	+25.4	+24.4
30	+25.5	+23.6	+25.1	+24.9	+24.3	+23.8	+24.8	+24.4	+24.6	+24.2	+25.4	+24.3
31	+27.6	+25.7					+24.8	+24.3			+25.7	+24.3

13. U. S. Dept. of Commerce. On St. Simon Island, at lighthouse. Water level affected by tide. Records available: 1940-49. Aug. 12, +33.13; Dec. 11, +33.94.

37. F. G. Horne. On St. Simon Island, about 0.25 mile south of Fort Frederica. Water level affected by tide. Records available: 1941-49. Aug. 12, +28.79; Dec. 11, +29.44.

44. Sea Island Co. On St. Simon Island, on north side Sea Island Road, 0.5 mile west of Cloister Hotel, at Gun Club. Water level affected by tide. Records available: 1943-49.

Date	Water level in Black Bank River, in feet above mean sea level	Water level in well
Aug. 12	1.8	+35.10
Dec. 11	.85	+36.94

45. City of Brunswick. In northeastern part of city, in H. E. Coffin Park. Records available: 1940-43. No measurements made in 1949.

63. S. L. Lewis. About 0.7 mile west of Southern Junction, about 300 feet northeast of U. S. Highway 341, 0.5 mile southeast of Burnett Creek. Records available: 1942-49. Dec. 12, +15.27.

100. New England Tourist Camp. On U. S. Highway 17, about 6.1 miles south of bridge over Altamaha River, about 300 feet east of highway. Records available: 1939-49. Aug. 11, +19.53; Dec. 11, +20.16.

128. A. C. Harrison. In Thalman, about 0.1 mile south of crossing of Seaboard Air Line Railway and Atlanta, Birmingham & Coast Railroad. Records available: 1941-48. No measurements made in 1949.

138. G. F. Cowman. About 300 feet south of marsh edge of South Brunswick River, on east side of U. S. Highway 17. Water level affected by tide. Records available: 1939-49. Aug. 12, +32.42; Dec. 11, +32.62.

143. J. F. McKee. On St. Simon Island, about 0.5 mile east of Frederica Road, 0.4 mile north of Sea Island Road, at Black Banks. Records available: 1940-45. No measurements made in 1949.

192. Edgar Rittenhouse. In Brunswick, 0.25 mile north of Palmetto Cemetery, about 400 feet east of old canal. Water level affected by pumpage in nearby industrial wells. Records available: 1940-49. Aug. 12, +18.94; Dec. 11, +19.77.

#### Henry County

11. D. J. Arnold. At Hampton, about 70 feet west of center of U. S. Highway 41 and 6 feet south of wooden shed. Records available: 1943-49. Aug. 12, 25.22; Oct. 26, 25.67; Dec. 19, 26.40.

#### Liberty County

19. Atlantic Coast Line Railroad. In McIntosh, about 300 feet southwest of crossing of railroad and State Highway 38, about 10 feet northwest of railroad. Records available: 1940-49. Aug. 11, +3.34; Dec. 10, +3.20.

28. Midway Church. In Midway, in front of church, at northeast corner of intersection of U. S. Highway 17 and road to Colonels Island. Records available: 1942-48. Measurements discontinued.

53. F. F. Branan. About 2.5 miles south of Midway, on west side of U. S. Highway 17. Records available: 1939-49. Aug. 11, +26.61; Dec. 10, +25.94.

75. Mrs. E. P. Way. About 3.7 miles south of Riceboro, along U. S. Highway 17, about 100 feet east of highway. Records available: 1941-49. Aug. 11, +22.10; Dec. 10, +21.85.

95. W. M. S. Howard. On Colonels Island, in northwestern part, near marsh. Water level affected by tide. Records available: 1941-49. Aug. 11, +15.62.

137. H. A. Bacon. In Hinesville, about 0.5 mile northeast of Liberty County Courthouse, along State Highway 38, on north side of highway. New measuring point, top of 3/4-inch tee, 0.3 foot above old measuring point and 1.2 feet above land-surface datum. Records available: 1940-49. Aug. 11, 0.23; Dec. 10, 0.42.

170. J. H. Woodall. On north side of U. S. Highway 17, 0.3 mile northeast of Freedman's Grove. Records available: 1941-49. Aug. 10, +13.70; Dec. 10, +13.28.

177. P. E. Youmans. In northeastern part of Colonels Island, about 20 feet north of owner's residence. Water level affected by tide. Records available: 1942-49. Aug. 11, +11.16; Dec. 10, +11.47.

#### Long County

8. Town of Ludowici. About 100 feet northwest of Atlantic Coast Line Railroad. Records available: 1940-47, 1949. Aug. 13, 11.50; Dec. 10, 11.80.

McIntosh County

14. C. H. Stebbins. In South Newport, northeast of intersection of U. S. Highway 17 and Harris Neck Road. Records available: 1941-49. Aug. 11, +19.11; Dec. 10, +18.79.

22. D. E. McDonald. In Eulonia, on west side of U. S. Highway 17, about 0.25 mile south of road to Townsend. Records available: 1941-47, 1949. Dec. 10, +18.62.

27. C. B. Mallard. On east side of State Highway 131, about 0.4 mile south of right-angled bend in road near Crescent, near bluff on south branch of Sapelo River. Water level affected by tide. Records available: 1940-49. Aug. 11, +5.64; Dec. 11, +5.75.

43. Shellman Bluff public well. In Shellman Bluff, between houses of Mallard Jones and Doby Hamons. Water level affected by tide. Records available: 1941-43, 1945-47, 1949. Dec. 11, +18.49.

45. New Masonic Lodge. Half a mile south of Shellman Bluff. Water level affected by tide. Records available: 1941-43, 1945-47, 1949. Dec. 11, +3.70.

85. R. C. Collins. About 0.7 mile west of Crescent on south side of State Highway 131. Records available: 1940-49. Aug. 11, 4.49; Dec. 11, 3.92.

103. A. M. Durant. In Valona, on east side of owner's residence. Water level affected by tide. Records available: 1940-43, 1945-49. Aug. 11, +23.39.

130. James O'Brien Estate. In Ridgeville, on east side of State Highway 131, half a mile south of road to dock. Records available: 1940-48. No measurements made in 1949.

141. Sam Gardner. About 6 miles southeast of Townsend, on east side of Briardam Road. Records available: 1940-47, 1949. Aug. 11, +19.59; Dec. 11, +19.85.

144. Col. Talbot Smith. About 1.5 miles northeast of Darien, about 0.25 mile east of State Highway 131, near marsh. Water level affected by tide. Records available: 1940-49. Aug. 11, +20.29; Dec. 11, +20.98.

180. D. C. Cowart. In Eulonia, about 75 feet west of center line of U. S. Highway 17, and about 50 feet south of center line of State Highway 131, extended. Records available: 1942-49. Aug. 11, +21.50; Dec. 10, +21.33.

Mitchell County

9. City of Camilla. In Camilla, at waterworks plant, about 80 feet east of center line of Ellis Street, and about 50 feet north of center line of Twitty Street. Records available: 1943-45. No measurement made in 1949.

Montgomery County

1. H. V. Thompson. In Ailey, about 0.25 mile southeast of Seaboard Air Line Railway station, about 200 feet south of railway. Records available: 1942-43, 1945-46, 1949. Oct. 4, 104.75; Dec. 7, 106.40.

Pierce County

2. City of Blackshear. In northeastern part of town, about 25 feet northwest of elevated concrete municipal water tank. Records available: 1940-49. Aug. 13, 59.79; Dec. 12, 59.39, nearby well pumping.



5. Town of Patterson. In Patterson, about 140 feet east of Atlantic Coast Line Railroad station. Records available: 1941-49. Aug. 13, 31.49; Dec. 12, 32.82.

Screven County

3. City of Sylvania. In Sylvania, 0.1 mile west of State Highway 21, at waterworks plant. Records available: 1943-47, 1949. Aug. 8, 103. Measured 11 minutes after pump shut down; Dec. 8, 104.9, measured 8 minutes after pump shut down.

8. W. W. Yant. In Dover, on southwest side of Central of Georgia Railway. Records available: 1943-47, 1949. Aug. 8, +17.52; Dec. 8, +16.09.

Spalding County

12. Georgia State Experiment Station. At Experiment, about 240 feet west of Central of Georgia Railway and 15 feet northeast of corner of Flynt Building. Records available: 1943-49.

From recorder charts

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 19	13.66	Sept. 9	14.80	Nov. 19	16.06	Dec. 9	16.56
20	13.71	Oct. 25	15.09	20	16.03	10	16.56
21	13.80	26	15.17	21	16.08	11	16.57
22	13.82	27	15.26	22	16.09	12	16.57
23	13.83	31	15.66	23	16.10	13	16.63
24	13.88	Nov. 1	15.58	24	16.07	14	16.66
25	13.95	2	15.51	25	15.97	15	16.67
26	13.96	3	15.44	26	16.16	16	16.69
27	14.01	4	15.35	27	16.14	17	16.70
28	14.17	5	15.35	28	16.26	18	16.63
29	13.93	6	15.35	29	16.23	19	16.61
30	13.95	7	15.36	30	16.28	21	16.64
31	13.96	8	15.38	Dec. 1	16.39	22	16.64
Sept. 1	13.88	9	15.91	2	16.40	23	16.57
2	13.84	10	15.95	3	16.47	24	16.67
3	14.19	14	15.84	4	16.46	25	16.77
4	14.20	15	15.81	5	16.45	26	16.76
5	14.20	16	15.98	6	16.43	27	16.31
6	14.23	17	16.02	7	16.38	28	16.86
7	14.40	18	16.04	8	16.50	29	16.90
8	14.71						

Ware County

6. State of Georgia. At Laura S. Walker State Park, 9 miles south-east of Waycross, 1.7 miles south of State Highway 50, along State Highway 177, near elevated tank. Records available: 1941-43, 1945-46, 1949. Aug. 12, 53.36; Dec. 12, 53.77.

Wayne County

1. City of Jesup. In Jesup, west of crossing of Southern Railway and Atlantic Coast Line Railroad. Records available: 1940-44. No measurements made in 1949.

3. A. W. Hurn. In Gardi, at northwest side of owner's residence, about 200 feet southwest of Southern Railway. Records available: 1940-43, 1945-49. Dec. 13, 3.94.

10. Town of Screven. In Screven, about 600 feet west of Atlantic Coast Line Railroad station. Records available: 1941-43, 1945-49. Aug. 13, 56.94; Dec. 12, 57.22.

## KENTUCKY

By M. I. Rorabaugh and E. A. Bell

### PROGRAM OF WORK

The investigation of ground-water resources in the Louisville area, begun in 1943, was continued in 1949 in cooperation with Jefferson County and the city of Louisville. This investigation, which was begun in 1943 because of a critical shortage of ground water for industrial use, has been continued so that records of water levels and pumpage will be available to forestall a recurrence of a critical shortage and for planning ground-water development.

In July 1949 the Geological Survey began investigations of the ground-water resources of the Paintsville, Henderson, Hopkinsville, and Covington areas in cooperation with the Agricultural and Industrial Development Board of Kentucky.

A multilithed report "Progress report on the ground-water resources of the Louisville area, Kentucky, 1945-49," by M. I. Rorabaugh, was released in December 1949.

As part of the work in the Louisville area, water-level measurements were made in 134 wells. Observations were made in all wells at about 6 week intervals and more frequently in three selected wells. Automatic water-stage recorders were maintained on eight wells during the year. A total of 96 months of automatic record and 1,039 water-level measurements were obtained during the year.

### FLUCTUATIONS OF WATER LEVELS

#### Jefferson County

Water levels in the Louisville area rose an average of 0.28 foot during the year, representing an average gain in storage of about 1.2 million gallons a day. Water-level changes ranged from gains of 2 feet south of the city to losses of nearly 4 feet in the northern part of the Rubbertown district.

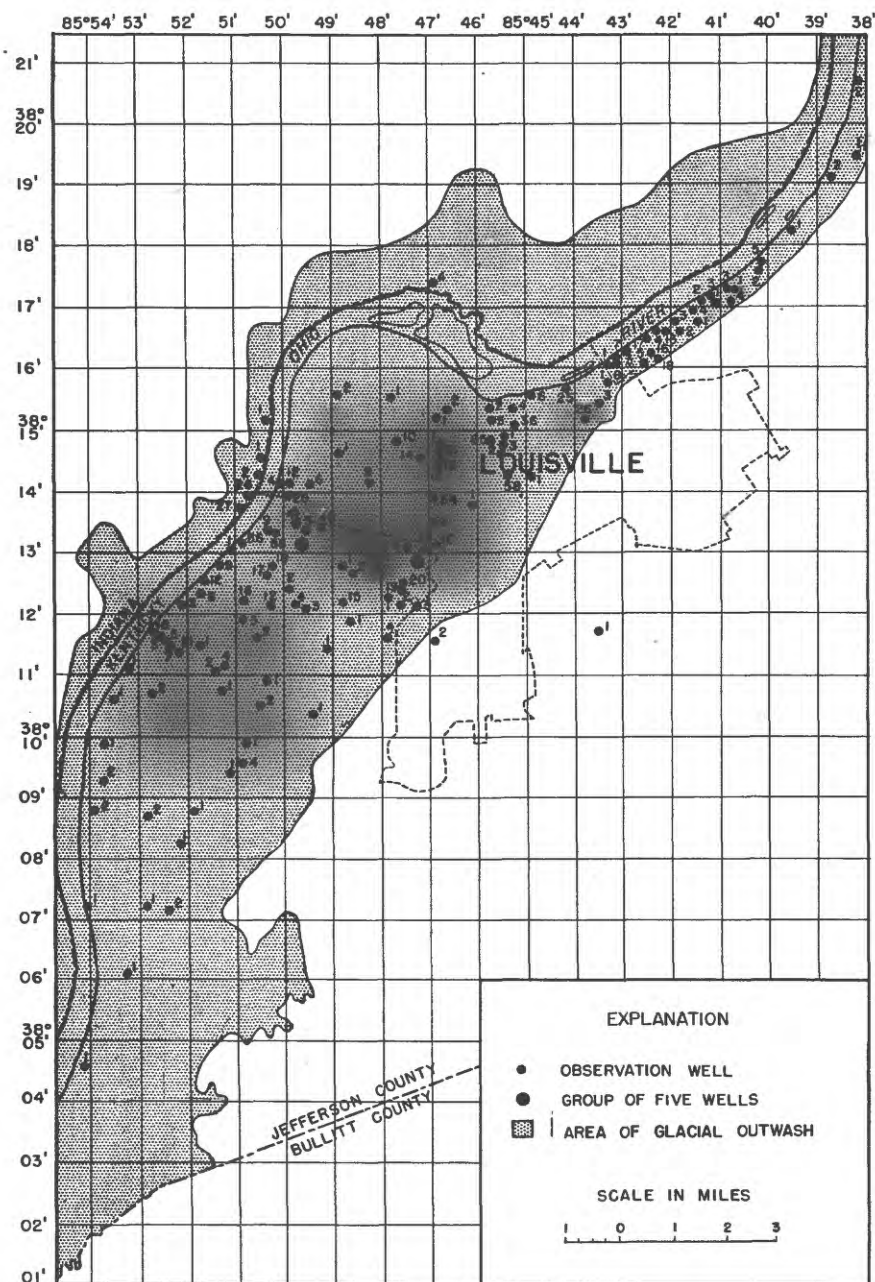


Figure 3.--Map showing location of observation wells in Louisville area.

In the downtown area, north of parallel  $38^{\circ}13'$  N. and east of meridian  $85^{\circ}46'$  W. (see fig. 4 ), water levels dropped about 1.5 feet during the year, reflecting the continuation of heavy pumping for air conditioning. The hydrograph for well 45-14-1 shown on figure 4 is representative of water levels in the area. Also shown on figure 4 is the hydrograph for well 50-10-2, in the unpumped area south of the city. Water levels in this area, which respond to rainfall, rose an average of 1.0 foot during the year.

In the central industrial area, west of meridian  $85^{\circ}46'$  and north of parallel  $38^{\circ}13'$  (see fig. 5 ), water levels rose about 1 foot during the year. Figure 5 shows the hydrograph for well 46-14-1 and a graph of average pumpage for this area. Natural recharge and pumpage in this area are nearly in balance. The gain for the year reflects above-average spring rainfall and also reduced pumpage.

In the distillery area south of Louisville, water-level changes varied from a decline of 15 feet in an area of local pumpage to a general gain of 1.2 feet in the southern portion of the area. Average gain for the area was about 1.0 foot. Figure 6 shows the hydrograph of well 47-12-1, and the graph of average pumpage for the area. Since pumpage was reduced in 1945, water levels have become somewhat stabilized.

In the Rubbertown area, southwest of the city, average water level did not change during the year. In the northern part of this area, along Bells Lane, a decline of about 2 feet occurred during the year, while a gain of about 2 feet was noted in the southern portion of the area. Figure 7 shows a hydrograph for well 49-13-24 which is typical of the northern part of Rubbertown.

Figures 8 and 9 are contour maps of water level in the Louisville area for February 1944 and December 1949. Comparison of these maps shows the recovery of water levels in the areas of heavy war-time pumpage and the lowering of water levels in the central and downtown areas.

#### PUMPAGE

Average pumpage is summarized annually since 1937 on figure 10 . This illustration shows the amounts of water pumped from the bedrock and also from the sand and gravel. Extent of artificial recharge since 1944 and estimated gains and losses in storage since 1943 are also shown.

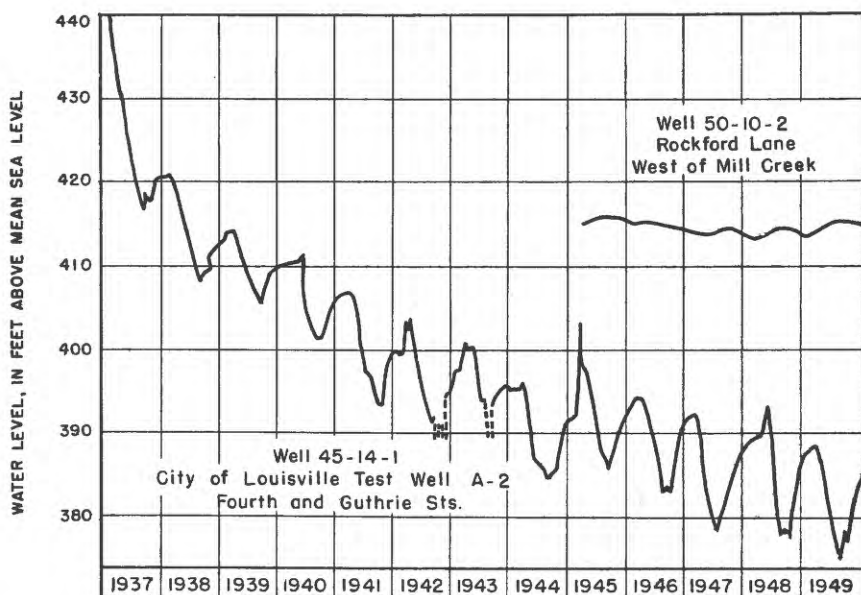


Figure 4.--Graphs of water levels in downtown area (well 45-14-1) and in unpumped area in southwestern part (well 50-10-2) of Louisville area.

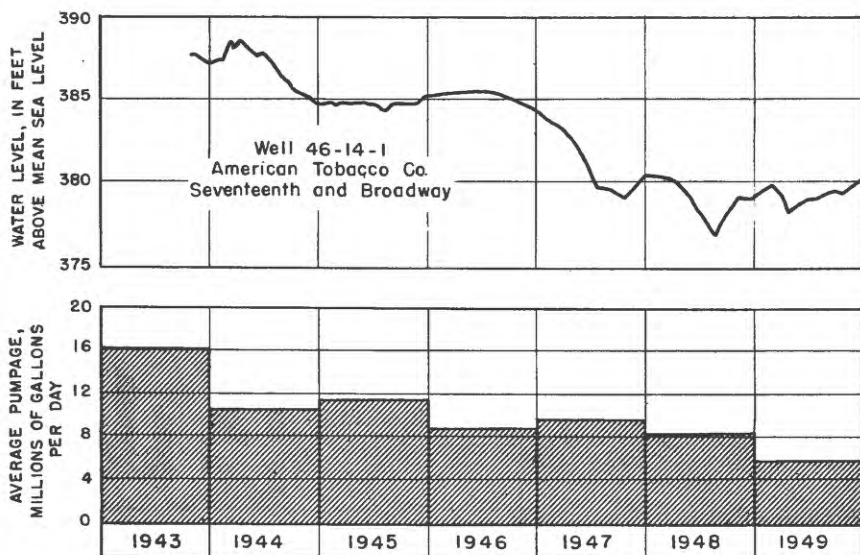


Figure 5.--Graphs of water level and estimated average pumpage in the west-central area (well 46-14-1) of Louisville.

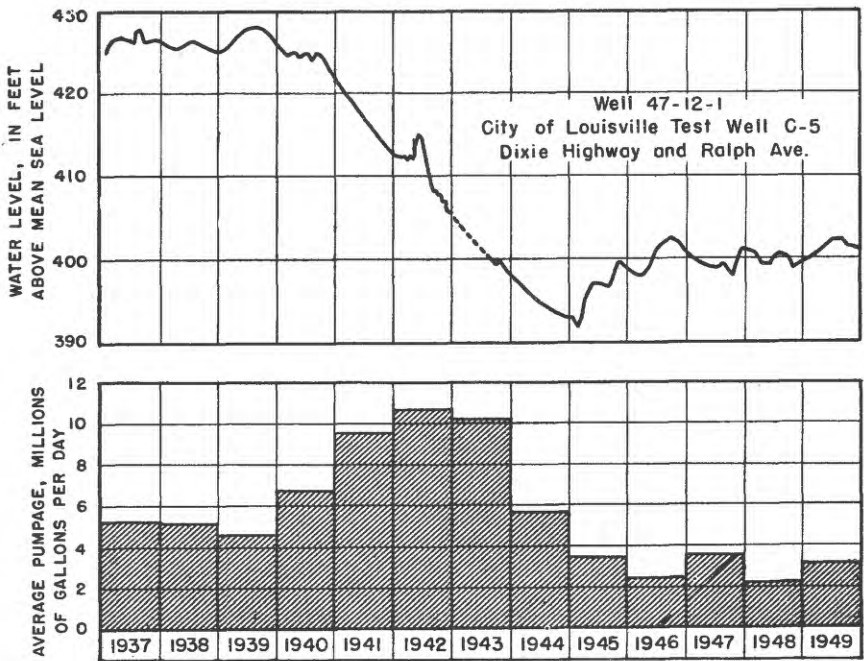


Figure 6.--Graphs of water level and estimated average pumpage in distillery area (well 47-12-1) south of Louisville.

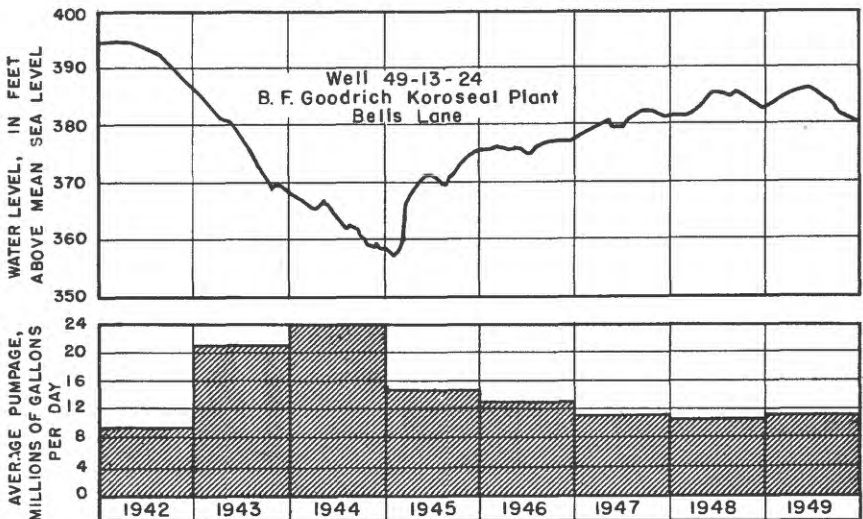


Figure 7.--Graphs of water level and estimated average pumpage in the Rubertown area (well 49-13-24) southwest of Louisville.

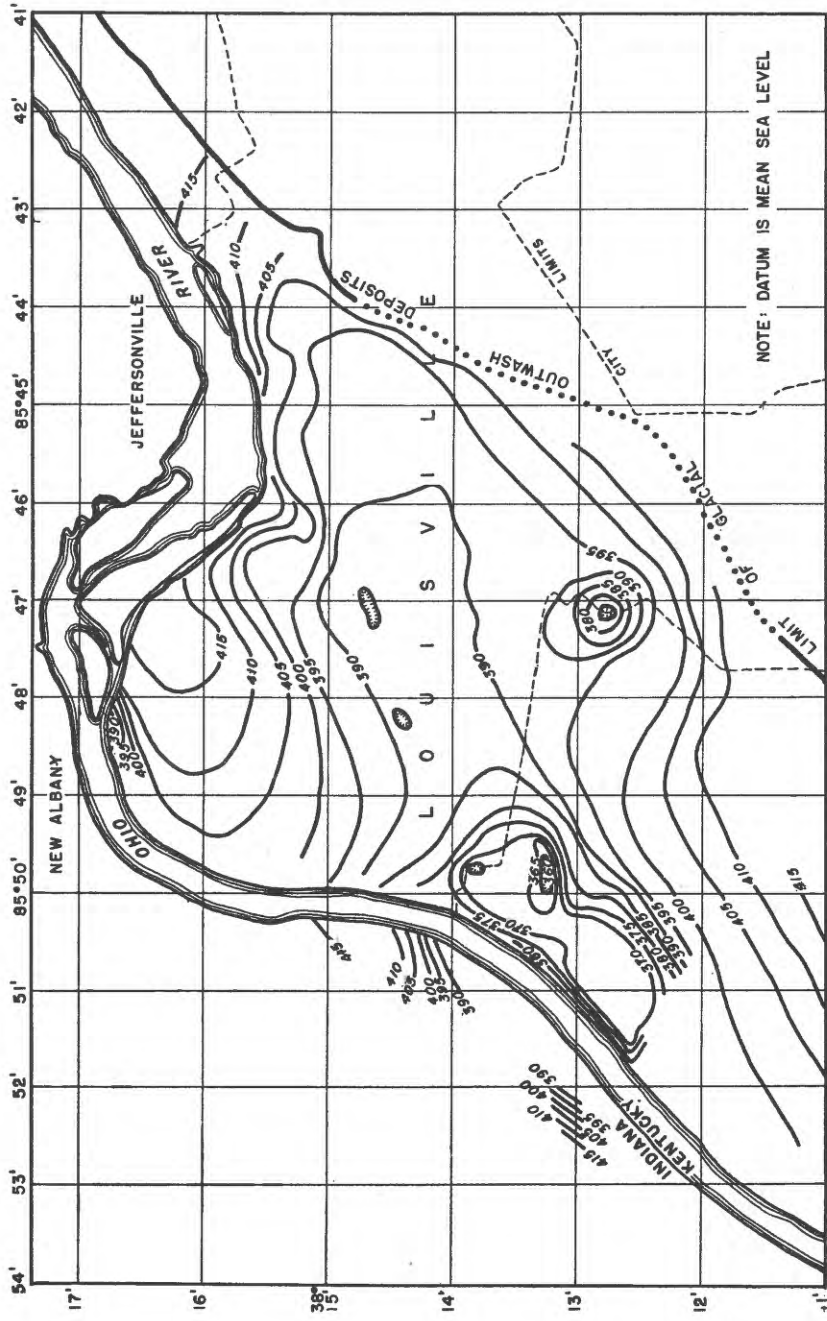


Figure 8.--Map of Louisville area showing contours of water levels, February 1944.

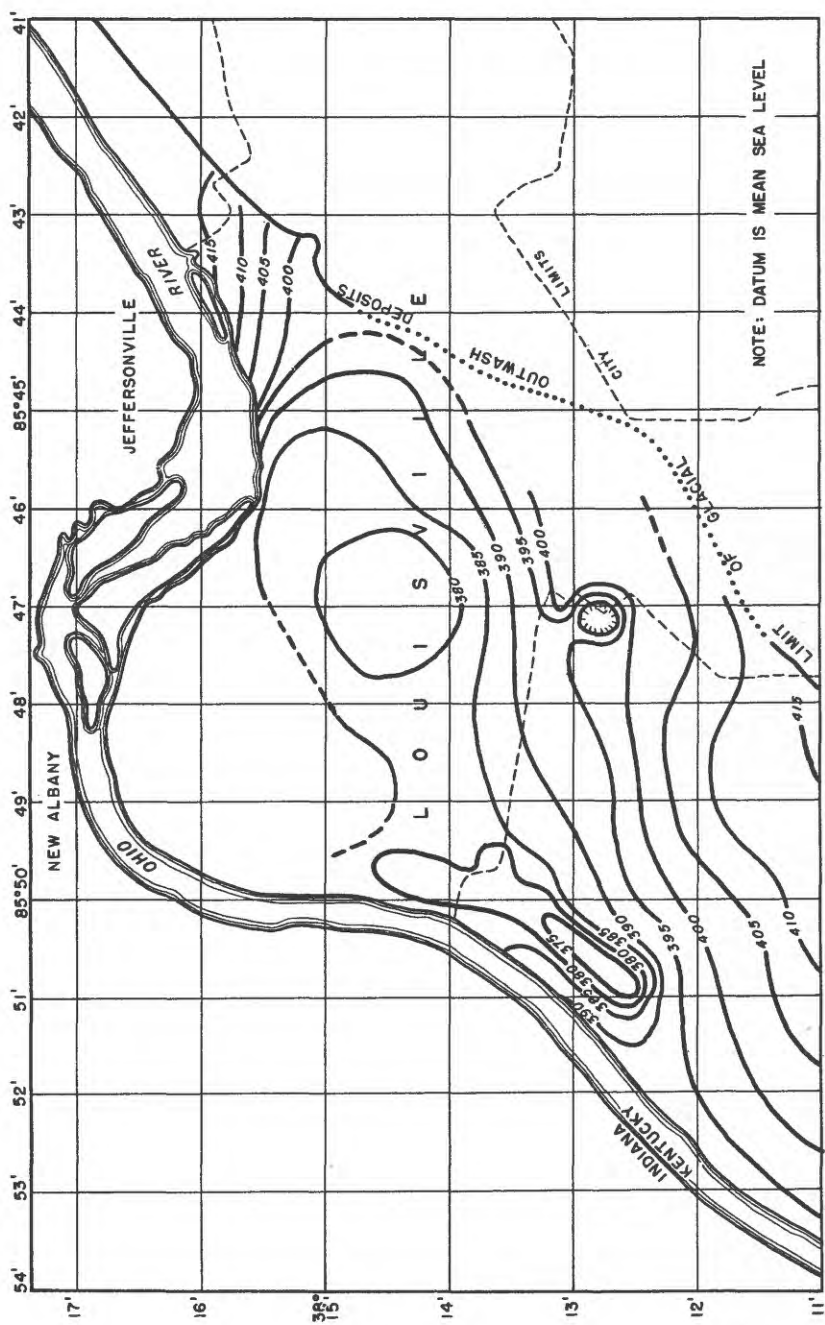


Figure 9.--Map of the Louisville area showing contours of water levels, December 1949.



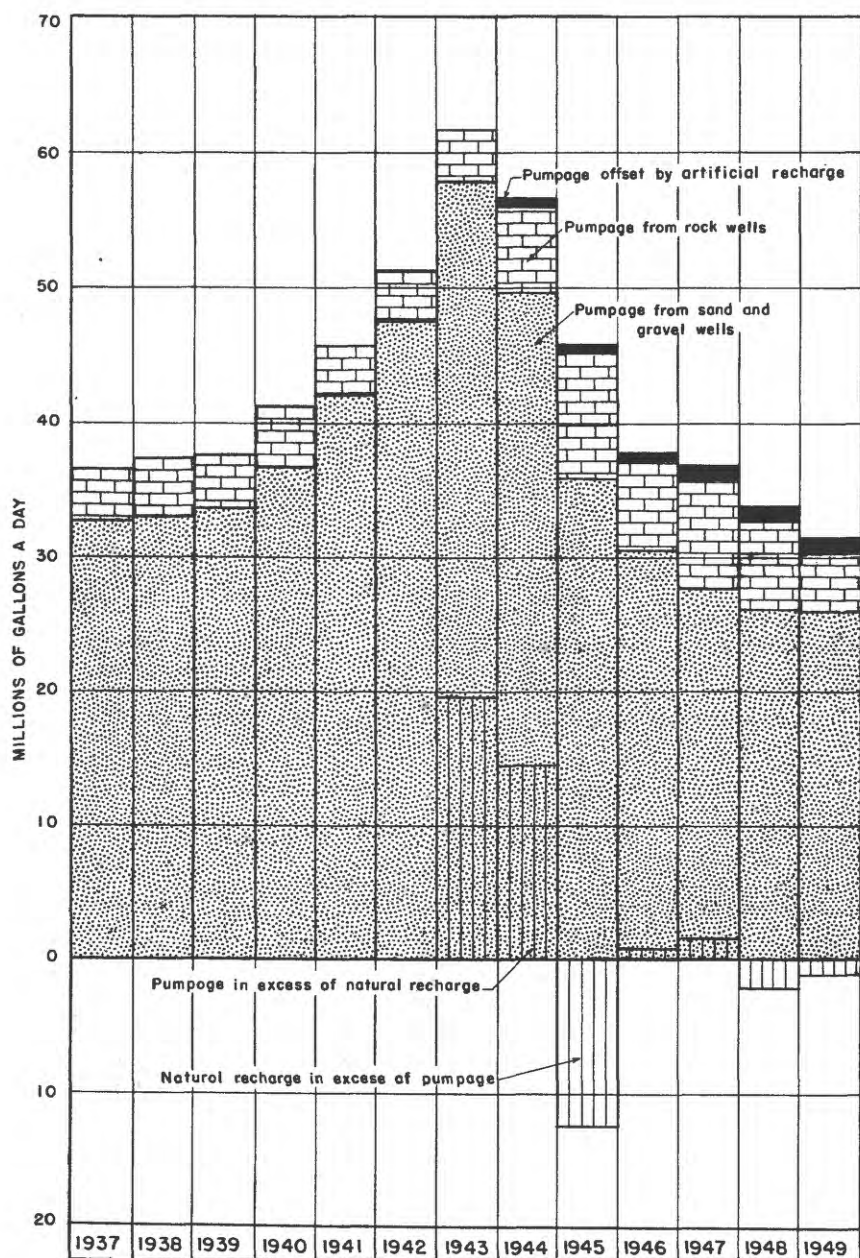


Figure 10.--Graphs showing pumpage, 1937 to 1949, and changes in storage, 1943 to 1949, in Louisville area.

In 1943, when pumping reached a peak, nearly 20 million gallons a day was drawn from storage. Conservation measures put into effect in 1944 and 1945 reduced pumpage so that it was nearly equal to natural recharge. The large gain in storage in 1945 resulted from the recharge effects of the spring flood of the Ohio River. Since 1945, changes in storage have been relatively small.

The gain in 1948 resulted from a river flood, while the 1949 gain is traced, in part, to more than normal recharge associated with above normal winter and spring precipitation.

#### WELL-NUMBERING SYSTEM

Records for six wells in the Louisville area, located in Indiana, are published in Water-Supply Paper 1156.

The Louisville area lies between latitude 85° and 86° N. and longitude 38° and 39° W. The area has been subdivided into quadrangles formed by the 1-minute meridians and parallels. Wells in each small quadrangle are numbered beginning with 1. Of nearly 700 wells inventoried, only the ones selected for observation are shown on figure 3. Wells are designated by a composite of three numbers; the minutes of longitude of the quadrangle, the minutes of latitude of the quadrangle, and the number of the well in that quadrangle. Thus, well 45-15-2 is the second well inventoried in the 1-minute quadrangle west of 85°45' W. longitude and north of 38°15' N. latitude. See figure 3 for well locations. A similar numbering system based on 5-minute quadrangles is used in Kentucky outside of the Louisville area.

#### WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

##### Calloway County

8815-3635-6. Joe Parks. In Murray about 200 feet southeast of intersection of 15th and Main Streets. Records available: 1948-49. Apr. 4, 126.35.

##### Jefferson County

38-19-1. Harrods Creek. 0.2 mile southwest of Baptist Church. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	9.02	Apr. 27	18.40	Aug. 3	19.05	Oct. 20	19.22
Mar. 10	18.31	June 21	18.28	Sept. 16	19.23	Dec. 7	18.98

38-19-2. Louisville Water Co. well WC-27. On River Road, northeast of bridge over Goose Creek. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	6.85	Apr. 27	17.93	Aug. 3	18.85	Oct. 20	19.00
Mar. 10	17.61	June 21	18.34	Sept. 16	18.98	Dec. 7	18.83

38-20-2. W. W. Liter. 1.5 miles north of Harrods Creek. Records available: 1944-49.

Jan. 28	7.72	Apr. 27	17.37	Aug. 3	18.49	Oct. 20	18.76
Mar. 10	17.46	June 21	18.46	Sept. 16	18.65	Dec. 7	18.63

39-18-1. Louisville Water Co. well WC-26. On River Road, opposite River Valley Club. Records available: 1946-49.

Jan. 28	28.62	Apr. 27	35.60	Aug. 3	36.28	Oct. 20	36.50
Mar. 10	35.74	June 21	36.13	Sept. 16	36.41	Dec. 7	36.34

40-17-1. Union Park Club 89. On River Road, northeast of Indian Hills Trail. Records available: 1944-49.

Jan. 28	17.78	Apr. 27	22.82	Aug. 3	23.55	Oct. 20	23.79
Mar. 10	22.69	June 21	23.30	Sept. 16	23.72	Dec. 7	23.69

40-17-2. Louisville Trust Co. Blankenbaker Lane, south of River Road. Records available: 1944-49.

Jan. 28	7.79	Apr. 27	16.17	Aug. 3	16.81	Oct. 20	16.98
Mar. 10	16.20	June 21	16.50	Sept. 16	16.90	Dec. 7	16.93

40-17-3. Louisville Water Co. well WC-11. At intersection of River Road and Indian Hills Trail. Records available: 1946-49.

Jan. 28	5.13	Apr. 27	13.31	Aug. 3	13.88	Oct. 20	14.07
Mar. 10	13.33	June 21	14.57	Sept. 16	14.03	Dec. 7	14.02

40-17-4. Louisville Water Co. well WC-12. On Indian Hills Trail, 1,500 feet southeast of River Road. Records available: 1946-49.

Jan. 28	9.28	Apr. 27	14.39	Aug. 3	15.24	Oct. 20	15.52
Mar. 10	14.19	June 21	14.83	Sept. 16	15.46	Dec. 7	15.43

40-17-5. Louisville Water Co. well WC-13. On River Road, 300 feet northeast of Blankenbaker Lane. Records available: 1946-49.

Jan. 28	10.12	Apr. 27	18.73	Aug. 3	19.29	Oct. 20	19.45
Mar. 10	18.81	June 21	19.00	Sept. 16	19.42	Dec. 7	19.43

41-16-1. Attila Cox. 0.2 mile southeast of Wagner Beach road sign on River Road. Records available: 1944-49.

Jan. 28	10.48	Apr. 27	13.80	Aug. 4	14.94	Oct. 20	15.15
Mar. 10	14.33	June 21	14.39	Sept. 16	15.08	Dec. 8	15.09

41-16-2. Louisville Water Co. well WC-3. On Zorn Avenue, 1,000 feet southeast of River Road. Records available: 1946-49.

Mar. 10	7.16	June 21	8.64	Sept. 16	9.51	Dec. 8	9.45
Apr. 27	7.96	Aug. 4	9.38	Oct. 20	9.61		

41-16-3. Louisville Water Co. well WC-4. At River Road and Zorn Avenue. Records available: 1946-49.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.62	6.70	13.28	14.69	15.46	15.99	16.26	16.44	16.62	16.90	16.70	16.61
2	15.7	6.50	13.49	14.79	15.53	16.12	16.27	16.44	16.63	16.88	16.68	16.74
3	15.69	6.64	13.70	14.77	15.55	16.18	16.26	16.56	16.61	16.82	16.66	16.73

a Tape measurement,

1 Interpolated.

41-16-3--Continued.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
4	15.74	7.44	13.77	14.92	15.57	16.14	16.34	16.61	16.60	16.80	16.69	16.70
5	15.50	8.57	13.94	14.87	15.57	16.24	16.35	16.63	16.66	16.75	16.72	16.60
6	15.08	9.89	14.16	14.99	15.56	16.24	16.38	16.63	16.67	16.74	16.59	16.49
7	14.73	10.84	14.31	15.01	15.61	16.29	16.38	16.59	16.69	16.81	16.58	16.63
8	14.80	11.51	14.37	15.08	15.61	16.33	16.35	16.61	16.72	16.82	16.63	16.71
9	14.78	12.04	14.51	15.10	15.61	16.34	16.38	16.59	16.71	16.78	16.68	16.62
10	14.72	12.48	14.55	15.15	15.61	16.37	16.25	16.61	16.72	16.73	16.71	16.59
11	14.73	12.75	14.54	15.16	15.64	16.33	16.32	16.65	16.71	16.78	16.65	16.55
12	14.70	13.05	14.67	15.20	15.64	16.33	16.41	16.64	16.69	16.79	16.69	16.51
13	14.80	13.44	14.71	15.16	15.71	16.37	16.45	16.67	16.70	16.77	16.65	16.48
14	14.96	13.47	14.79	15.09	15.74	16.37	16.46	16.66	16.73	16.83	16.66	16.48
15	15.12	13.43	14.82	15.18	15.74	16.32	16.51	16.64	16.73	16.73	16.65	16.47
16	15.20	13.23	14.83	15.18	15.83	16.01	16.55	16.61	16.75	16.75	16.63	16.37
17	15.29	12.61	14.90	15.08	15.88	16.01	16.51	16.54	16.77	16.77	16.64	16.26
18	15.24	11.84	14.90	15.19	15.96	15.94	16.47	16.63	16.78	16.81	16.65	16.22
19	15.37	11.21	14.90	15.15	15.94	16.01	16.56	16.59	16.79	16.81	16.62	16.15
20	15.40	10.81	15.00	15.15	15.88	16.03	16.59	16.52	16.79	16.86	16.66	16.12
21	15.37	10.43	14.90	15.14	15.74	15.95	16.51	16.49	16.80	16.82	16.73	16.09
22	15.44	10.35	14.76	15.23	15.88	15.91	16.53	16.44	16.78	16.87	16.69	16.17
23	15.34	10.79	14.78	15.24	15.92	15.99	16.51	16.39	16.81	16.89	16.61	16.23
24	15.12	11.48	14.83	15.24	15.97	16.03	16.42	16.51	16.82	16.80	16.52	16.34
25	14.67	12.11	14.92	15.32	16.02	16.15	16.37	16.60	16.85	16.80	16.56	16.22
26	13.68	12.49	14.86	15.34	16.10	16.16	16.36	16.60	16.84	16.86	16.53	16.12
27	12.67	12.64	14.77	15.30	16.10	16.20	16.37	16.60	16.85	16.87	16.56	16.11
28	11.11	13.00	14.73	15.37	16.09	16.20	16.47	16.60	16.84	16.87	16.51	16.19
29	9.60		14.72	15.40	16.08	16.21	16.51	16.61	16.88	16.83	16.51	16.28
30	8.16		14.63	15.40	16.01	16.22	16.57	16.62	16.86	16.82	16.55	16.39
31	7.21		14.59		15.97		.....	16.51		16.80		16.39

41-16-4. Louisville Water Co. well WC-9. On River Road, at entrance to Wagner Beach. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	13.29	Apr. 27	15.43	Aug. 4	18.43	Oct. 20	18.64
Mar. 10	16.85	June 21	17.94	Sept. 16	18.57	Dec. 8	18.53

41-17-1. Sam J. Hamrick. 500 feet south of River Road, 1 mile north-east of Zorn Avenue. Records available: 1943-49.

Jan. 28	18.70	Apr. 27	23.26	Aug. 3	24.03	Oct. 20	24.27
Mar. 10	23.07	June 21	23.77	Sept. 16	24.26	Dec. 7	24.17

41-17-2. Louisville Water Co. well WC-8. Wagner Beach. Records available: 1946-49.

Jan. 28	(f)	Apr. 27	7.12	Aug. 4	7.83	Oct. 20	8.01
Mar. 10	6.72	June 21	7.50	Sept. 16	7.96	Dec. 8	7.87

f Flooded.

41-17-3. Louisville Water Co. well WC-10. 25 feet from river edge, 1,750 feet upstream from Wagner Beach. Records available: 1946-49.

Mar. 10	15.72	June 21	15.75	Sept. 16	16.29	Dec. 6	16.00
Apr. 27	15.66	Aug. 3	16.15	Oct. 19	16.27		

42-16-3. Louisville Gas & Electric Co. At Beargrass plant. Records available: 1944-49.

Jan. 28	(f)	Apr. 28	7.09	Aug. 4	8.62	Oct. 20	8.58
Mar. 10	6.50	June 22	7.81	Sept. 27	8.68	Dec. 8	8.12

f Flooded.

42-16-4. Louisville Gas & Electric Co. 93 feet from river edge, 0.5 mile northeast of Beargrass plant. Records available: 1944-49.

## 42-16-4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	(f)	June 22	8.10	Sept. 16	8.85	Dec. 6	8.45
Mar. 11	6.60	Aug. 4	8.75	Oct. 20	8.85		

f Flooded.

42-16-5. Henry Chambers. 600 feet south of River Road, opposite Louisville Gas & Electric Co. power plant. Records available: 1944-49. Apr. 28, 12.13; June 22, 13.56; Aug. 4, 14.84; Sept. 16, 14.46.

42-16-15. Louisville Water Co. well WC-5. 160 feet from river edge, 300 feet downstream from Louisville Water Co. pumping station. Records available: 1946-49.

Feb. 1	3.85	Apr. 25	15.09	Aug. 4	15.73	Oct. 20	15.90
Mar. 11	14.58	June 6	15.62	Sept. 27	15.86	Dec. 8	15.67

42-16-16. Louisville Water Co. well WC-6. 1,400 feet northeast of Louisville Gas & Electric Co. Beargrass plant, 600 feet northwest of River Road. Records available: 1946-49.

Mar. 10	9.09	June 22	10.81	Sept. 16	11.61	Dec. 6	11.27
Apr. 27	9.84	Aug. 4	11.83	Oct. 20	11.94		

42-16-17. Louisville Water Co. well WC-7. 1,500 feet northeast of Louisville Gas & Electric Co. Beargrass plant, 1,600 feet northwest of River Road, 20 feet from river edge. Records available: 1946-48. Jan. 28, flooded. No measurements made in 1949.

42-16-18. Louisville Water Co. well WC-14. 800 feet southeast of River Road, northeast of Frys Avenue. Records available: 1946-49.

Mar. 10	14.33	June 22	16.36	Sept. 16	17.37	Dec. 8	17.11
Apr. 27	15.26	Aug. 4	17.47	Oct. 20	17.64		

43-11-1. L. Cave. At 1324 Morgan Street. Records available: 1943-49. Aug. 5, 13.52; Oct. 12, 13.53; Dec. 9, 13.63.

43-15-1. City of Louisville well M-1. At Beargrass sewerage pumping station on Letterle Avenue. Records available: 1937-49.

Jan. 3	32.94	Mar. 28	29.92	July 5	33.33	Oct. 10	34.29
10	32.57	Apr. 4	30.45	11	33.49	17	34.37
17	32.79	11	30.95	18	33.85	24	34.49
21	32.90	18	31.10	Aug. 1	33.87	31	34.25
24	32.45	26	31.47	8	33.42	Nov. 7	34.00
28	28.27	May 2	31.53	15	33.55	14	33.71
31	23.70	9	31.64	22	33.72	21	33.90
Feb. 7	27.24	23	32.35	29	34.02	28	33.59
14	28.81	30	32.91	Sept. 6	34.04	Dec. 5	33.73
28	29.25	June 2	33.40	12	34.30	8	33.77
Mar. 6	30.53	13	33.45	19	34.32	12	33.01
14	30.86	20	32.12	26	34.54	19	32.77
21	30.87	27	33.55	Oct. 3	34.53	27	32.79

43-15-3. E. H. Koch. At 1415 Quincy Avenue. Records available: 1946-49.

Jan. 28	32.07	Apr. 26	31.35	July 29	34.71	Oct. 21	35.02
Mar. 10	29.89	June 22	33.58	Sept. 20	34.81	Dec. 8	34.54

43-15-26. C. F. Vissman & Co. At 117 Bickel Avenue. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level
Jan. 28	50.55	Sept. 26	50.58	Dec. 8	51.81
Mar. 10	45.10	Oct. 21	50.80		

43-16-1. City of Louisville. 150 feet east of municipal boat harbor. Measuring point raised July 29, 1949, to 426.23 feet above mean sea level and 0.25 foot above land-surface datum. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	(f)	Apr. 27	5.84	July 29	9.34	Oct. 20	9.54
Mar. 10	(f)	June 22	8.68	Sept. 16	9.58	Dec. 6	9.23

f Flooded.

43-16-7. Louisville Water Co. well WC-2. 50 feet from river edge, 1,200 feet upstream from mouth of Beargrass Creek. Records available: 1946-49.

Jan. 28	(f)	Apr. 27	3.96	Aug. 4	6.38	Oct. 20	7.14
Mar. 11	1.02	June 22	3.69	Sept. 16	6.87	Dec. 6	7.31

f Flooded.

43-16-8. Louisville Water Co. well WC-1. 115 feet northwest of River Road, 1,100 feet northeast of Beargrass Creek bridge. Records available: 1946-49.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	22.27	11.59	18.99	20.65	21.76	22.68	23.45	23.45	23.65	24.26	23.97	23.52
2	22.28	11.52	19.26	20.71	21.81	22.79	23.49	23.65	23.64	24.25	23.91	23.61
3	22.32	12.08	19.45	20.71	21.91	22.94	23.51	23.83	23.61	24.18	23.89	23.61
4	22.41	12.94	19.59	20.82	21.95	22.95	23.59	23.95	23.61	24.18	23.87	23.64
5	22.25	13.92	19.71	20.84	22.00	23.01	23.58	23.94	23.67	24.01	23.85	23.52
6	21.98	15.02	19.85	20.93	22.05	23.04	23.58	23.92	23.69	24.04	23.78	23.39
7	21.69	16.01	20.05	20.97	22.09	23.12	23.53	23.65	23.69	24.06	23.67	23.46
8	21.77	16.71	20.20	21.04	22.02	23.15	23.47	23.59	23.73	24.20	23.67	23.52
9	21.91	17.29	20.32	21.05	21.96	23.12	23.51	23.64	23.69	24.18	23.74	23.44
10	21.83	17.84	20.33	21.10	21.87	23.16	23.59	23.78	23.85	24.14	23.77	23.48
11	21.81	18.17	20.36	21.10	21.73	23.05	23.42	23.81	23.89	24.25	23.77	23.40
12	21.76	18.45	20.44	21.14	21.83	23.04	23.57	23.82	23.95	24.11	23.90	23.30
13	21.76	18.78	20.49	21.07	22.00	23.16	23.70	23.62	23.98	24.02	23.71	23.22
14	21.93	18.89	20.61	21.13	22.15	23.13	23.77	23.55	24.05	24.11	23.63	23.19
15	22.07	18.84	20.70	21.13	22.19	22.98	23.87	23.48	24.07	24.02	23.61	23.16
16	22.11	18.74	20.74	21.14	22.33	22.61	23.83	23.45	23.91	23.98	23.60	23.10
17	22.11	18.52	20.78	21.08	22.45	22.61	23.75	23.43	23.89	23.99	23.54	23.10
18	22.07	17.96	20.84	21.21	22.58	22.59	23.68	23.57	23.84	24.04	23.50	23.02
19	22.21	17.34	20.88	21.27	22.57	22.71	23.71	23.53	24.00	24.00	23.53	23.05
20	22.26	16.84	20.93	21.33	22.37	22.83	23.72	23.41	24.09	24.16	23.62	23.08
21	22.24	16.42	20.91	21.46	22.24	22.87	23.69	23.36	24.13	24.23	23.73	23.00
22	22.29	16.29	20.78	21.56	22.25	22.87	23.66	23.31	24.13	24.30	23.59	23.08
23	22.18	16.72	20.78	21.52	22.30	22.99	23.72	23.30	24.15	24.14	23.49	23.06
24	22.04	17.27	20.92	21.48	22.38	23.04	23.65	23.43	24.19	24.07	23.45	23.12
25	21.86	17.78	20.88	21.53	22.48	23.20	23.65	23.52	24.20	24.04	23.45	23.00
26	21.11	18.16	20.74	21.54	22.55	23.20	23.72	23.58	24.20	24.21	23.42	22.95
27	20.09	18.40	20.57	21.42	22.58	23.24	23.70	23.58	24.17	24.17	23.41	22.90
28	18.06	18.70	20.56	21.56	22.61	23.25	23.79	23.63	24.21	24.21	23.41	23.00
29	15.59		20.58	21.71	22.61	23.39	23.87	23.64	24.25	24.15	23.45	23.15
30	13.40		20.53	21.67	22.59	23.25	23.79	23.63	24.26	24.17	23.46	23.23
31	12.15		20.49		22.58		23.59	23.56		24.08		23.25

a Tape measurement.

44-14-1. Southeastern Greyhound Lines. Between Floyd and Caldwell Streets, in bus parking lot at rear of garage. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 11	68.51	June 22	67.73	Sept. 20	69.30	Dec. 2	70.26
Apr. 28	67.80	July 29	68.02	Oct. 24	70.09		

44-15-6. Ohio River Sand Co. At 129 River Road. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	33.68	Apr. 22	36.03	Aug. 2	37.01	Oct. 21	38.13
Mar. 10	35.94	June 20	36.57	Sept. 20	37.77	Dec. 8	38.47

44-15-25. New York Central System. Directly under railroad bridge over Ohio River. Records available: 1944-49.

Jan. 28	(f)	Apr. 27	14.14	Aug. 2	15.29	Oct. 20	15.64
Mar. 10	13.28	June 22	14.84	Sept. 16	15.23	Dec. 8	15.77

f Flooded.

45-14-1. City of Louisville well A-2. In Lincoln Park, on South 4th Street at Guthrie Street. Records available: 1937-49.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	74.64	73.53	73.10	72.81	73.25	77.33	81.97	84.66	85.86	82.82	81.07	78.05
2	74.55	73.51	73.05	72.71	73.27	77.58	82.15	84.85	85.73	82.70	80.87	78.03
3	74.55	73.45	73.03	72.71	73.41	77.85	82.13	84.97	85.71	82.64	80.73	77.94
4	74.51	73.45	72.98	72.66	73.65	78.10	81.97	85.03	85.64	82.79	80.54	77.87
5	74.47	73.46	72.98	72.56	74.12	78.26	82.07	85.10	85.52	82.91	80.41	77.80
6	74.45	73.41	73.04	72.52	74.57	78.36	82.37	85.18	85.50	83.00	80.23	77.80
7	74.41	73.40	72.99	72.51	74.99	78.64	82.60	85.03	85.63	83.15	80.07	77.67
8	.....	73.35	72.92	72.55	75.07	78.79	82.82	85.04	85.67	83.29	79.99	77.62
9	.....	73.36	72.92	72.59	75.24	78.91	83.04	85.23	85.62	83.35	79.94	77.6
10	74.35	73.35	72.89	72.56	75.46	79.10	83.04	85.34	85.39	83.41	79.87	.....
11	74.25	73.39	72.86	72.46	75.22	79.29	83.05	85.42	85.14	83.65	79.84	.....
12	74.23	73.32	72.83	72.45	75.09	79.43	83.18	85.48	84.93	83.80	79.86	77.36
13	74.19	73.33	72.76	72.64	75.12	79.48	83.31	85.59	84.94	83.53	79.85	77.34
14	74.17	73.32	72.73	72.77	75.40	79.72	83.40	85.45	84.87	83.26	79.72	77.24
15	74.15	73.30	72.72	72.85	75.63	79.91	83.55	85.45	84.75	83.03	79.56	77.15
16	74.11	73.32	72.69	72.75	75.78	79.96	83.60	85.64	84.45	82.85	79.43	77.05
17	74.08	73.34	72.63	72.62	76.07	79.96	83.50	85.72	84.24	82.61	79.30	76.98
18	74.02	73.28	72.63	72.59	76.32	80.03	83.50	85.81	84.32	82.51	79.16	76.93
19	74.10	73.24	72.61	72.53	76.56	80.00	83.65	85.86	84.35	82.41	79.02	76.87
20	74.04	73.26	72.55	72.51	76.80	80.12	83.82	85.83	84.28	82.64	78.91	76.92
21	73.97	73.23	72.49	72.48	76.96	80.35	83.89	85.66	84.11	82.85	78.85	76.91
22	73.97	73.26	72.44	72.58	77.08	80.56	84.04	85.52	84.05	82.90	78.69	76.94
23	73.90	73.34	72.52	72.72	76.97	80.75	84.15	85.51	83.97	82.61	78.52	76.92
24	73.90	73.23	72.44	72.79	77.21	80.92	84.04	85.50	83.77	82.36	78.43	76.81
25	73.96	73.25	72.44	72.77	77.13	81.07	84.10	85.58	83.57	82.18	78.36	76.72
26	73.86	73.19	72.53	72.83	76.98	81.07	84.34	85.73	85.40	82.05	78.28	76.63
27	73.82	73.14	72.61	72.95	76.88	81.12	84.47	85.84	83.25	81.88	78.21	76.57
28	73.82	73.13	72.60	73.09	77.01	81.40	84.59	85.74	83.21	81.72	78.15	76.55
29	73.86		72.63	73.11	77.13	81.58	84.70	85.73	83.18	81.60	78.11	76.50
30	.....		72.67	73.25	77.04	81.77	84.83	85.86	83.04	81.47	78.07	76.47
31	73.58		72.76		77.10		84.74	85.96		81.28		76.42

a Tape measurement.

i Interpolated.

45-14-2. City of Louisville well A-1. About 40 feet east of South 4th Street, on northeast corner of its intersection with York Street. Records available: 1937-49.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.63	67.88	67.40	66.89	66.99	69.17	71.55	73.59	74.76	74.25	73.54	71.40
2	68.60	67.86	67.39	66.89	67.03	69.21	71.67	73.64	74.78	74.20	73.44	71.36
3	68.58	67.82	67.37	66.89	67.06	69.27	71.74	73.69	74.79	74.15	73.34	71.30
4	68.56	67.81	67.33	66.89	67.11	69.35	71.83	73.75	74.80	74.14	73.22	71.24
5	68.51	67.79	67.31	.....	67.19	69.46	71.88	73.78	74.81	74.15	73.14	71.18
6	68.49	67.76	67.28	.....	67.32	69.56	71.93	73.85	74.83	74.15	73.01	71.12
7	68.45	67.75	67.26	.....	67.41	69.62	72.02	73.93	74.85	74.15	72.90	71.07
8	68.44	67.72	67.24	.....	67.54	69.72	72.10	73.97	74.86	74.15	72.82	71.04
9	68.41	67.71	67.20	.....	67.68	69.80	72.21	74.01	74.88	74.19	72.75	71.00
10	68.37	67.69	67.17	.....	67.77	69.89	72.33	74.05	74.89	74.23	72.64	70.96

## 45-14-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	68.35	67.69	67.16	66.78	67.85	69.97	72.40	74.11	74.89	74.25	72.58	70.91
12	68.33	67.67	67.15	66.77	67.89	70.06	72.46	74.16	74.89	74.27	72.52	70.86
13	68.30	67.64	67.12	66.77	67.94	70.14	72.51	74.21	74.88	74.34	72.47	70.82
14	68.27	67.63	67.08	66.77	68.02	70.20	72.58	74.27	74.87	74.34	72.43	70.78
15	68.24	67.58	67.07	66.79	68.10	70.28	72.64	74.31	74.87	74.34	72.38	70.73
16	68.21	67.57	67.06	66.83	68.17	70.39	72.69	74.35	74.85	74.33	72.33	.....
17	68.19	67.57	67.03	66.84	68.23	70.45	72.75	74.37	74.79	74.31	72.28	.....
18	68.16	67.56	67.00	66.84	68.34	70.53	72.82	74.43	74.71	74.30	72.22	.....
19	68.13	67.53	66.99	66.84	68.44	70.60	72.84	74.49	74.68	74.26	72.13	70.53
20	68.13	67.53	66.98	66.84	68.56	70.66	72.86	74.54	74.67	74.26	72.07	70.47
21	68.10	67.51	66.93	66.80	68.67	70.71	72.91	74.59	74.67	74.26	72.00	70.42
22	68.09	67.49	66.92	66.78	68.79	70.78	72.94	74.60	74.64	74.27	71.95	70.39
23	68.05	67.47	66.92	66.78	68.87	70.85	73.02	74.61	74.64	74.26	71.88	70.37
24	68.02	67.46	66.89	66.82	68.91	70.95	73.08	74.62	74.58	74.24	71.80	70.37
25	68.02	67.45	66.87	66.85	68.99	71.04	73.15	74.63	74.52	74.19	71.74	70.33
26	67.99	67.44	66.86	66.85	69.04	71.14	73.19	74.63	74.45	74.12	71.67	70.27
27	67.96	67.42	66.85	66.87	69.09	71.21	73.26	74.66	74.38	74.04	71.62	70.23
28	67.93	67.41	66.87	66.93	69.12	71.28	73.32	74.70	74.34	73.94	71.52	70.19
29	67.93		66.88	66.96	69.14	71.36	73.40	74.72	74.32	73.84	71.50	70.16
30	67.92		66.88	66.97	69.15	71.46	73.46	74.72	74.30	73.73	71.49	70.10
31	67.88		66.88		69.15		73.53	74.74		73.63		70.08

a Tape measurement.

45-14-3. Thompson's Restaurant. At 668 South 4th Street. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	71.74	Feb. 28	70.46	Apr. 11	d 51+	June 22	d 51+
Feb. 1	70.89	Mar. 11	70.15	27	d 51+	July 5	d 51+
14	70.69	28	69.78				

d Dry at this depth, well obstructed.

45-14-58. Kentucky Dairies. At 981 South 3d Street. Records available: 1945-49.

Feb. 1	67.22	Apr. 28	66.26	July 29	67.58	Oct. 24	68.75
Mar. 11	66.75	June 22	66.79	Sept. 23	68.58	Dec. 14	68.43

45-14-65. Courier-Journal and Louisville Times Publishing Co. well 4. Sixth and Broadway Streets, in south end of basement. Drilled industrial well, diameter 12 inches, depth 185 feet. Measuring point is 11.7 feet below land-surface datum and 444.9 feet above mean sea level. Records available: 1949. Sept. 6, 84.57; Sept. 27, 82.79; Oct. 28, 79.90; Dec. 15, 75.33.

45-15-2. City of Louisville well B-2. In sidewalk at southwest corner of South 9th and Congress Streets. Records available: 1937-49.

Jan. 28	66.86	Apr. 22	65.40	July 29	67.80	Oct. 21	69.67
Mar. 11	66.00	June 17	66.18	Sept. 15	69.38	Dec. 14	69.01

45-15-3. City of Louisville well B-3. In sidewalk at southwest corner of South 8th and Cedar Streets. Records available: 1937-49.

Jan. 28	73.74	Apr. 22	72.30	July 29	76.21	Oct. 21	77.74
Mar. 11	72.83	June 17	73.93	Sept. 15	78.49	Dec. 14	76.32



45-15-4. City of Louisville well A-3. In southeast corner of Jefferson County courthouse yard. Records available: 1937-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	74.42	Apr. 22	71.41	Aug. 15	76.10	Oct. 21	78.30
Feb. 1	73.36	May 9	71.53	29	77.18	31	78.29
14	72.98	23	71.82	Sept. 6	77.64	Nov. 7	78.19
18	72.64	June 22	72.96	19	78.15	14	78.05
Mar. 11	72.34	July 5	73.90	26	78.31	29	77.69
28	72.00	22	75.16	Oct. 3	78.35	Dec. 14	77.03
Apr. 11	71.82	Aug. 2	75.93	11	78.22	27	76.61

45-15-36. Kentucky Hotel. Southeast corner of 5th and Walnut Streets in engine room. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	73.10	Apr. 22	71.37	Aug. 8	84.18	Oct. 21	81.45
Feb. 1	72.20	May 9	73.83	29	84.80	31	79.86
28	71.63	23	75.75	Sept. 6	84.36	Nov. 14	78.34
Mar. 11	71.41	June 22	78.91	19	83.39	29	76.83
28	71.34	July 5	80.85	26	82.01	Dec. 14	75.49
Apr. 11	71.12	22	83.14	Oct. 3	81.55	27	75.26

46-11-2. Rubber Reserve Co. well RR-25. Northeast corner of intersection of Taylor Boulevard and Hathaway Street. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	49.70	June 9	48.78	Sept. 9	48.05	Nov. 23	48.28
Mar. 8	49.68	July 22	48.28	Oct. 14	48.11	Dec. 30	48.56
Apr. 19	49.38						

46-13-1. Merchant's Ice & Cold Storage Co. At corner of South 7th and Magnolia Streets. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level
Jan. 27	77.43	Apr. 28	77.91	July 22	76.76
Mar. 10	77.45	June 17	77.22		

46-13-8. Brown & Williamson Tobacco Corporation well 4. At 1600 West Hill Street. Records available: 1943-47. No measurements made in 1949.

46-13-10. Joseph E. Seagram & Sons Co. test well 4. At intersection of Bernheim Lane and 7th Street Road. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	58.43	Apr. 21	d 59.00	July 26	d 59.00	Oct. 13	d 52.50
Mar. 9	d 59.00	June 14	d 59.00	Sept. 9	d 59.00		

d Dry at this depth, well obstructed.

46-13-34. Tobacco By-Products & Chemical Corporation. At 1350 South 17th Street, in well house at rear of plant. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	79.49	Apr. 22	79.14	July 29	78.62	Oct. 19	78.43
Mar. 10	79.37	June 15	78.70	Sept. 15	78.51	Dec. 15	78.40

46-14-1. American Tobacco Co. At intersection of 17th Street and Broadway. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level
Jan. 27	74.62	Apr. 22	76.00	Oct. 19	74.74
Mar. 10	74.19	June 17	74.77	Dec. 15	73.89

46-14-13. Bernheim Distilling Co. well 3. Seventeenth and Breckenridge Streets, in pumphouse about 20 feet west of boiler room. Abandoned drilled industrial well, diameter 16 inches, depth 111 feet. Measuring point is 0.72 foot above land-surface datum and 452.31 feet above mean sea level. Records available: 1949. Oct. 19, 74.67; Dec. 15, 73.27.

46-14-16. Bernheim Distilling Co. At 1701 West Breckinridge Street in No. 2 distillery. Records available: 1948-49. July 29, 72.43.

46-15-1. Merchant's Ice & Cold Storage Co. Southwest corner of 19th and Walnut Streets. Records available: 1948-49. Destroyed, measurements discontinued.

46-15-8. Hirsch Bros. & Co. At 1400 Cedar Street. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	79.80	Apr. 22	79.00	July 29	78.99	Oct. 21	79.71
Mar. 10	79.39	June 17	78.80	Sept. 15	79.38	Dec. 14	79.88

47-11-4. Rubber Reserve Co. well RR-42. West side of Manslick Road, 0.1 mile south of Berry Boulevard. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	46.02	June 9	44.55	Sept. 9	43.92	Nov. 23	44.22
Mar. 8	45.60	July 22	44.24	Oct. 14	44.05	Dec. 30	44.48
Apr. 20	45.09						

47-12-1. City of Louisville well C-5. Dixie Highway, at Frankfort Distillers. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	63.30	June 8	60.35	Sept. 9	60.36	Nov. 25	61.23
Mar. 9	62.86	July 27	60.39	Oct. 13	60.84	Dec. 30	61.61
Apr. 27	61.65						

47-12-2. City of Louisville well C-6. Seventh Street Road at George's Tavern, 0.5 mile south of Arcade Avenue. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	52.81	June 8	50.17	Sept. 9	50.01	Nov. 23	51.04
Mar. 9	52.38	July 26	50.30	Oct. 14	50.75	Dec. 30	51.40
Apr. 21	51.55						

47-12-3. City of Louisville well C-7. At end of Weyler Avenue. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	46.43	June 9	44.44	Sept. 9	44.11	Nov. 23	44.77
Mar. 8	46.03	July 22	44.20	Oct. 14	44.50	Dec. 30	45.18
Apr. 19	45.47						

47-12-4. Joseph E. Seagram & Sons Co. test well 2. In Seagram parking lot, in southwestern corner of intersection of Wathens Lane and 7th Street Road. Records available: 1943-49.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	61.20	60.57	59.98	59.26	58.55	64.92	69.57	70.02	71.72	72.52	.....	72.28
2	61.17	60.54	59.94	59.21	58.57	65.42	69.64	70.57	71.85	72.51	.....	72.09
3	61.16	60.47	59.96	59.19	58.53	65.88	68.17	70.77	71.92	72.54	.....	.....
4	61.11	60.45	59.91	59.16	58.49	66.69	66.77	70.95	71.40	72.57	.....	.....
5	61.08	60.41	59.87	59.10	58.48	64.44	68.20	71.08	71.27	72.67	.....	71.85
6	61.06	60.34	59.90	59.09	58.46	65.33	68.89	70.72	71.71	72.71	.....	72.30
7	61.02	60.41	59.91	60.00	58.44	66.02	69.34	68.70	70.16	72.74	72.65	72.07
8	61.01	60.31	59.81	59.47	58.41	66.67	69.65	69.76	69.96	72.78	72.66	72.07
9	61.02	60.35	59.76	59.31	58.36	67.02	69.96	70.51	71.12	71.32	72.70	71.99
10	60.98	60.32	59.83	59.18	58.34	67.31	68.30	70.77	71.57	71.94	72.72	72.20
11	60.96	60.35	59.79	59.09	58.33	67.47	69.10	71.00	71.63	72.21	72.74	72.51
12	60.92	60.27	59.75	59.03	58.31	65.43	69.70	71.18	71.57	72.26	72.75	72.46
13	60.89	60.25	59.70	59.00	58.28	66.53	69.92	71.27	71.77	72.28	72.75	72.42
14	60.88	60.21	59.66	58.94	58.26	67.27	70.09	70.08	71.87	72.36	72.74	72.35
15	60.85	60.26	59.64	59.02	58.24	67.48	70.22	70.49	71.89	72.37	72.77	72.39
16	60.83	60.18	59.59	59.01	58.22	67.72	70.18	70.92	71.95	70.44	.....	72.39
17	60.84	60.26	59.56	58.89	58.21	67.90	68.14	71.10	71.98	71.08	.....	72.44
18	60.75	60.17	59.60	58.94	60.12	68.12	68.68	71.24	72.06	71.67	.....	72.54
19	60.90	60.11	59.62	58.93	60.90	66.38	69.81	71.32	72.04	71.89	.....	72.54

a Tape measurement.

## 47-12-4--Continued.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
20	60.86	60.17	59.52	58.87	60.92	66.80	70.12	71.34	72.03	72.03	.....	72.59
21	60.73	60.11	59.46	58.83	61.50	67.84	70.51	69.58	72.08	72.10	72.75	72.67
22	60.74	60.07	59.42	58.79	59.74	68.27	70.41	70.41	72.11	72.29	.....	72.68
23	60.68	60.06	59.47	58.78	61.22	68.48	70.48	71.13	72.14	72.20	72.87	72.68
24	60.67	60.00	59.40	58.79	62.98	68.67	68.97	71.44	72.10	69.67	72.77	72.64
25	60.67	60.06	59.41	58.73	63.91	68.80	69.44	71.59	72.18	69.92	72.87	69.69
26	60.62	60.00	59.35	58.72	64.45	67.28	70.09	71.76	72.07	70.90	72.67	68.13
27	60.54	59.94	59.31	58.69	64.86	68.17	70.40	71.79	72.04	71.82	72.46	68.12
28	60.60	59.99	59.36	58.69	65.18	68.81	70.68	70.19	72.36	72.22	72.18	69.76
29	60.72		59.32	58.64	63.47	69.17	70.88	70.67	72.40	72.49	72.07	70.63
30	60.66		59.27	58.60	62.29	69.40	70.95	71.30	72.37	72.52	72.07	71.64
31	60.54		59.23		64.02		69.44	71.52		72.67		72.29

a Tape measurement.

47-12-6. Joseph E. Seagram & Sons Co. In brick pumphouse near center of Seagram's parking lot, at intersection of 7th Street Road and Wathens Lane. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	60.90	Apr. 27	58.90	July 27	75.77	Oct. 13	77.42
Mar. 9	60.00	June 7	70.35	Sept. 9	76.34	Nov. 25	77.54

47-12-14. National Distillers Products Corporation test well 2. At Old Grand Dad distillery on Bernheim Lane. Records available: 1941-49.

Jan. 27	57.09	June 14	57.30	Sept. 9	60.97	Nov. 25	62.65
Mar. 9	56.11	July 27	59.68	Oct. 13	61.93	Dec. 30	62.24
Apr. 27	55.06						

47-12-15. National Distillers Products Corporation test well 4. At Old Grand Dad distillery on Bernheim Lane. Records available: 1942-49.

Jan. 27	59.25	July 27	57.01	Oct. 13	57.29	Dec. 30	57.88
Mar. 9	58.54	Sept. 9	57.10	Nov. 25	57.73		

47-12-16. National Distillers Products Corporation test well 1. At Old Grand Dad distillery on Bernheim Lane. Records available: 1941-49.

Jan. 27	57.30	June 14	56.03	Sept. 9	59.57	Nov. 25	61.22
Mar. 9	56.21	July 27	58.17	Oct. 13	60.46	Dec. 30	61.35
Apr. 27	55.17						

47-12-19. Brown-Forman Distillers Corporation well 1. At Early Times distillery on Dixie Highway. Records available: 1947-49.

Jan. 26	58.50	June 9	54.43	Sept. 9	55.59	Nov. 25	56.30
Mar. 8	57.63	July 26	55.32	Oct. 13	55.90	Dec. 30	56.83
Apr. 27	56.30						

47-12-20. Brown-Forman Distillers Corporation test well 1. At Early Times distillery on Dixie Highway. Records available: 1944-49. July 26, 51.72; Oct. 13, 52.43; Nov. 25, 52.83; Dec. 30, 53.36.

47-13-8. National Distillers Products Corporation test well 3. At Old Grand Dad distillery on Bernheim Lane. Records available: 1941-49.

Jan. 27	58.20	June 14	55.64	Sept. 9	58.09	Nov. 25	59.65
Mar. 9	57.02	July 27	56.92	Oct. 13	58.89	Dec. 30	60.17
Apr. 27	55.98						

47-13-11. Joseph E. Seagram & Sons Co. test well 3. On Seagram property at 7th Street Road and Wathens Lane. Records available: 1944-49.

Jan. 27	64.42	June 14	63.07	Sept. 9	58.08	Nov. 25	59.72
Mar. 9	64.09	July 27	57.29	Oct. 13	58.83	Dec. 30	60.06
Apr. 27	63.58						

47-14-10. National Distillers Products Corporation. At Old Sunnybrook plant, at 28th Street and Broadway. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	71.96	Apr. 26	71.47	July 29	71.25	Oct. 19	70.91
Mar. 10	71.97	June 16	71.43	Sept. 14	71.06	Dec. 13	70.48

47-14-14. Brown-Forman Distillers Corporation. Nineteenth and Howard Streets, in maintenance shop on north side of Howard Street. Abandoned drilled industrial well, diameter 8 inches, depth 175 feet. Measuring point is at land-surface datum and 450.92 feet above mean sea level. Records available: 1949. July 29, 78.32; Sept. 15, 77.40; Oct. 19, 75.78; Dec. 15, 74.44.

47-15-1. City of Louisville well M-3. On southwest corner of 28th and Jefferson Streets. Records available: 1939-49.

Jan. 27	d 40.5+	Apr. 22	40.40	July 29	d 40.30	Dec. 13	40.41
Mar. 10	d 40.5+	June 22	40.37	Sept. 14	d 40.5+		

d Dry at this depth.

48-11-1. Charles Matheis. On Matheis Lane, 0.5 mile west of Dixie Highway. Records available: 1944-49.

Jan. 25	52.42	June 8	50.60	Sept. 9	50.40	Nov. 23	50.74
Mar. 8	51.90	July 26	50.40	Oct. 14	50.55	Dec. 30	50.97
Apr. 21	51.18						

48-12-1. City of Louisville well C-2. 0.25 mile north of Glencoe distillery, east of Cane Run Road. Records available: 1935-49.

Jan. 26	61.29	June 8	60.17	Sept. 9	58.84	Nov. 29	58.71
Mar. 9	60.84	July 26	59.25	Oct. 11	58.68	Dec. 30	58.87
Apr. 21	60.17						

48-12-2. City of Louisville well C-3. 0.2 mile north of Stitzel-Weller distillery, 0.1 mile east of Tucker Lane. Records available: 1935-49.

Jan. 26	72.77	June 8	71.29	Sept. 9	70.72	Nov. 29	70.53
Mar. 9	72.35	July 27	71.05	Oct. 13	70.54	Dec. 30	70.67
Apr. 21	71.70						

48-12-15. Rubber Reserve Co. well RR-41. On Farnsley Road right-of-way, northside, 0.6 mile west of Dixie Highway. Records available: 1945-49.

Jan. 25	50.21	June 8	48.76	Sept. 9	48.25	Nov. 23	48.58
Mar. 8	49.73	July 26	48.28	Oct. 14	48.40	Dec. 30	48.80
Apr. 21	49.06						

48-14-1. City of Louisville well M-4. At 38th Street and Greenwood Avenue. Records available: 1939-49.

Jan. 27	56.98	June 15	55.95	Aug. 9	55.77	Oct. 18	55.67
Mar. 10	56.89	July 29	55.58	Sept. 14	55.69	Dec. 9	55.74
Apr. 22	56.44						

48-14-9. Parkland Ice & Coal Co. At 3111 Woodland, in east end of engine room. Abandoned drilled industrial well, diameter 12 inches, depth 111 feet. Measuring point is 0.47 foot above land-surface datum and 450.73 feet above mean sea level. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level
July 19	68.83	Sept. 14	68.33	Dec. 15	66.92
28	68.70	Oct. 19	68.16		

48-15-2. Klarer Provision Co. well 1. At 210 Amy Avenue, in north-east corner of engine room. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	47.63	Apr. 22	47.28	July 29	47.09	Oct. 19	47.27
Mar. 10	47.62	June 16	47.04	Sept. 14	47.22	Dec. 13	47.53

49-10-1. T. W. Blackwell. East side of Dixie Highway, at Rockford Lane. Records available: 1944-49.

Jan. 25	38.73	June 7	36.78	Sept. 8	36.90	Nov. 17	37.38
Mar. 14	37.84	July 22	36.70	Oct. 13	37.10	Dec. 29	37.62
Apr. 20	37.16						

49-11-1. Rubber Reserve Co. well RR-32. On property of Louis Risinger, Garra Lane, 0.6 mile west of Dixie Highway. Records available: 1945-49.

Jan. 25	43.15	June 7	41.44	Sept. 9	41.38	Nov. 17	41.73
Mar. 8	42.60	July 22	41.29	Oct. 13	41.56	Dec. 29	41.97
Apr. 20	41.95						

49-12-2. Henry Vogt. 0.25 mile west of Cane Run Road and 0.25 mile north of Kramers Lane. Records available: 1944-49.

Jan. 25	49.88	June 8	48.54	Sept. 9	48.48	Nov. 23	49.21
Mar. 8	49.65	July 26	48.24	Oct. 14	48.76	Dec. 30	49.75
Apr. 21	49.05						

49-12-3. Mrs. Ridley. East of white house, 0.35 mile south of intersection of Cane Run Road and Ridley's Court. Records available: 1944-49.

Jan. 25	45.87	June 8	46.18	Sept. 9	46.14	Nov. 23	45.91
Mar. 8	45.89	July 26	46.01	Oct. 14	45.84	Dec. 30	45.69
Apr. 21	46.04						

49-12-4. Rubber Reserve Co. well RK-40. On southeast corner of intersection of Cane Run and Farnsley Roads. Records available: 1945-49.

Jan. 25	50.36	June 8	49.22	Sept. 9	48.76	Nov. 23	49.17
Mar. 8	50.19	July 26	48.76	Oct. 14	48.93	Dec. 30	49.53
Apr. 21	49.85						

49-13-5. Synthetic Rubber Co. test well 10. On Illinois Central Railroad Co. property, between Algonquin Parkway and Bells Lane, west of main switch to Bond Bros. tie plant. Records available: 1945-49.

Jan. 26	74.13	Apr. 21	72.53	July 28	72.89	Oct. 18	p 78.54
Mar. 8	73.39	June 17	72.32	Sept. 14	73.70	Nov. 30	75.51

p Pumping.

49-13-22. Bond Bros. On tie plant property, on Bells Lane. Records available: 1933-49.

Jan. 26	63.84	Apr. 21	62.83	July 28	62.34	Oct. 18	63.44
Mar. 8	63.17	June 17	61.65	Sept. 19	63.64	Nov. 30	64.36

49-13-24. B. F. Goodrich Co. well 17. On koroseal plant property, on Bells Lane. Records available: 1943-49.

Jan. 26	69.53	Apr. 21	67.76	July 28	68.30	Oct. 18	71.00
Mar. 8	68.45	June 16	67.49	Sept. 14	69.34	Nov. 30	71.68

49-13-25. B. F. Goodrich Co. test well 2. On koroseal plant property, on Bells Lane. Records available: 1947-49.

Jan. 26	66.58	Apr. 26	64.46	July 28	65.15	Oct. 18	68.12
Mar. 8	65.26	June 16	64.26	Sept. 14	66.70	Nov. 30	69.61

49-13-26. B. F. Goodrich Co. test well 14. On koroseal plant property, on Bells Lane. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	66.65	Apr. 26	65.05	July 28	65.96	Oct. 18	67.38
Mar. 8	65.74	June 16	64.70	Sept. 14	66.70	Nov. 30	68.39

49-13-27. B. F. Goodrich Co. test well 15. On koroseal plant property, on Bells Lane. Records available: 1943-49.

Jan. 26	63.41	Apr. 26	61.86	July 28	62.59	Oct. 18	63.67
Mar. 8	62.54	June 16	61.51	Sept. 14	63.27	Nov. 30	64.86

49-13-28. Fish & Wildlife Service, U. S. Dept. of Interior. At Gibson Lane and Western Parkway. Records available: 1943-49.

Jan. 27	71.73	Apr. 21	71.92	July 27	74.22	Oct. 18	74.70
Mar. 9	70.62	July 15	73.93	Sept. 14	74.83	Dec. 9	75.25

49-13-40. Rubber Reserve Co. well RR-26. On southeast corner of intersection of 39th Street and Algonquin Parkway. Records available: 1945-49.

Jan. 26	65.45	Apr. 21	64.68	July 27	64.15	Oct. 18	64.61
Mar. 8	65.13	June 15	64.20	Sept. 14	64.37	Nov. 30	64.98

49-13-41. Synthetic Rubber Co. test well 12. On Illinois Central Railroad Co. property, south of Algonquin Parkway and west of main switch to Bond Bros. tie plant. Records available: 1945-49.

Jan. 26	64.18	Apr. 21	62.75	July 28	62.84	Oct. 18	65.49
Mar. 8	63.57	June 16	62.44	Sept. 14	63.61	Nov. 30	65.62

49-14-6. Tube Turns. On Kentucky State Fairgrounds. Records available: 1943-49.

Jan. 27	62.00	Apr. 22	61.15	July 28	61.02	Oct. 18	61.46
Mar. 9	61.65	June 15	61.02	Sept. 28	61.28	Dec. 9	62.03

49-14-12. Louisville Refining Co. 1300 South Western Parkway. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level
Jan. 28	71.60	Sept. 14	71.41	Dec. 9	p97.6
July 28	p95.97	Oct. 18	p96.02		

p Pumping.

50-9-1. William Genenwein. On private road west of Upper Hunters Trace, 0.7 mile west of Dixie Highway. Records available: 1943-48. No measurements made in 1949.

50-9-4. Rubber Reserve Co. well RR-37. On southwest corner of intersection of Lower Hunters Trace and Upper Hunters Trace. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	35.24	June 3	33.73	Sept. 8	33.52	Nov. 17	33.83
Mar. 8	34.73	July 26	33.54	Oct. 12	33.68	Dec. 29	34.03
Apr. 19	34.15						

50-10-1. Robert Lee. On Luckert Avenue, about 0.3 mile east of August Avenue. Records available: 1944-49.

Jan. 25	26.10	June 4	24.68	Sept. 8	24.55	Nov. 17	24.86
Mar. 8	25.57	July 27	24.54	Oct. 13	24.70	Dec. 29	25.04
Apr. 20	25.10						

50-10-2. Rubber Reserve Co. well RK-30. On south side of Rockford Lane, 0.95 mile west of Dixie Highway. Records available: 1945-49.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.16	.....	28.71	28.35	27.91	27.71	27.62	27.58	27.66	27.78	27.91	28.08
2	29.17	.....	28.69	28.27	27.93	27.69	27.62	27.59	27.65	27.77	27.92	28.10
3	29.20	.....	28.68	28.29	27.92	27.69	27.61	27.59	27.65	27.78	27.94	28.09
4	29.18	.....	28.65	28.26	27.90	27.68	27.61	27.59	27.65	27.78	27.92	28.11
5	29.20	.....	28.66	28.23	27.89	27.69	27.61	27.59	27.66	27.79	27.95	28.12
6	29.20	.....	28.68	28.25	27.87	27.68	27.60	27.60	27.67	27.79	27.94	28.10
7	29.17	28.99	28.63	28.23	27.88	27.69	27.60	27.59	27.67	27.80	27.95	28.13
8	29.17	28.94	28.63	28.23	27.86	27.69	27.61	27.59	27.68	27.80	27.95	28.14
9	28.20	28.97	28.60	28.20	27.86	27.68	27.60	27.58	27.69	27.81	27.95	28.14
10	29.19	29.01	28.79	28.18	27.88	27.67	27.60	27.59	27.69	27.80	27.96	28.14
11	29.19	28.95	28.60	28.18	27.85	27.66	27.60	27.59	27.70	27.81	27.96	28.14
12	29.20	28.94	28.60	28.14	27.83	27.66	27.59	27.58	27.70	27.84	27.97	28.16
13	29.19	28.96	28.59	28.16	27.83	27.66	27.59	27.59	27.70	27.83	27.98	28.16
14	29.21	28.83	28.55	28.08	27.82	27.67	27.59	27.59	27.72	27.83	27.99	28.16
15	29.20	28.99	28.58	28.19	27.81	27.66	27.59	27.59	27.72	27.84	27.99	28.17
16	29.21	28.87	28.51	28.13	27.81	27.66	27.59	27.59	27.72	27.84	27.98	.....
17	29.23	28.89	28.51	28.04	27.80	27.66	27.59	27.59	27.73	27.85	28.00	.....
18	29.17	28.85	28.59	28.12	27.79	27.65	27.60	27.59	27.73	27.85	28.02	.....
19	29.31	28.82	28.52	28.09	27.76	27.64	27.60	27.59	27.75	27.86	27.99	28.16
20	29.21	28.90	28.45	28.06	27.77	27.65	27.61	27.60	27.76	27.86	28.02	28.16
21	29.21	28.81	28.45	28.05	27.77	27.64	27.60	27.61	27.75	27.87	28.04	28.16
22	29.23	28.85	28.46	28.05	27.78	27.64	27.60	27.61	27.74	27.88	28.03	28.20
23	29.19	28.80	28.47	28.02	27.77	27.63	27.60	27.62	27.75	27.88	28.03	28.21
24	29.23	28.78	28.41	28.05	27.77	27.62	27.60	27.62	27.76	27.89	28.01	28.21
25	29.22	28.81	28.42	27.99	27.74	27.64	27.59	27.63	27.75	27.89	28.05	28.19
26	29.22	28.75	28.37	27.98	27.75	27.62	27.59	27.62	27.74	27.90	28.03	28.21
27	29.06	28.72	28.39	27.98	27.73	27.62	27.59	27.62	27.74	27.89	28.06	28.25
28	29.24	28.75	28.42	27.96	27.73	27.63	27.59	27.62	27.75	27.90	28.05	28.24
29	29.21		28.34	27.95	27.72	27.63	27.58	27.64	27.77	27.90	28.08	28.24
30	29.09		28.31	27.94	27.71	27.62	27.58	27.64	27.78	27.90	28.08	28.25
31	29.12		28.33		27.70		27.59	27.62		27.92		28.25

a Tape measurement

50-11-2. Rubber Reserve Co. well RR-33. On southeast corner of intersection of Crums Lane and Cane Run Road. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	38.48	June 7	37.15	Sept. 8	36.77	Nov. 22	37.18
Mar. 8	38.26	July 27	36.77	Oct. 13	36.99	Dec. 29	37.44
Apr. 20	37.78						

50-11-3. Rubber Reserve Co. well RR-39. On north side of Schencks Lane, 0.5 mile west of Cane Run Road. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	48.80	June 7	46.42	Sept. 8	46.90	Nov. 22	47.41
Mar. 8	48.18	July 26	46.51	Oct. 13	47.17	Dec. 29	47.74
Apr. 20	47.17						

50-12-12. Patrick Whelan. On Kramers Lane, 0.2 mile west of Cane Run Road. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	48.62	June 8	47.15	Sept. 9	47.02	Nov. 22	47.59
Mar. 8	48.36	July 26	46.80	Oct. 14	47.30	Dec. 30	47.95
Apr. 20	47.80						

50-12-16. Rubber Reserve Co. well RR-27. On south side of Kramers Lane, 245 feet east of Camp Ground Road. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	55.22	June 8	51.98	Sept. 9	53.90	Nov. 22	53.31
Mar. 8	53.53	July 26	52.44	Oct. 13	53.10	Dec. 30	53.53
Apr. 20	52.35						

50-12-17. Rubber Reserve Co. well RR-34. On Z. C. Long's farm, east side of Camp Ground Road, 0.4 mile north of Kramers Lane. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	57.08	Apr. 21	55.21	July 26	55.42	Oct. 14	57.66
Mar. 9	56.24	June 8	55.06	Sept. 9	57.08	Nov. 29	58.58

50-12-18. Rubber Reserve Co. well RR-35. On Bond Bros. property, north side of Camp Ground Road, 0.3 mile east of Ralph Avenue. Records available: 1945-49.

Jan. 25	64.65	Apr. 21	62.81	July 27	63.06	Oct. 14	65.06
Mar. 8	63.79	June 8	62.78	Sept. 9	64.06	Nov. 29	66.40

50-13-9. National Carbide Corporation pump well 10. On company property, on Bells Lane. Records available: 1945-49. Jan. 26, 65.54.

50-13-56. Rubber Reserve Co. well RR-24. In E. I. du Pont de Nemours upper field, on south bank of Lower Paddy Run about 200 feet east of Ohio River bank. Measuring point lowered July 7, 1949, to 419.78 feet above mean sea level and 6.0 feet below land-surface datum. Records available: 1945-49.

Jan. 26	27.90	June 8	40.83	July 26	40.17	Oct. 14	43.97
Mar. 9	31.09	July 7	41.75	Sept. 13	43.19	Nov. 29	44.17
Apr. 26	33.12						

50-13-58. National Carbide Corporation test well. On company property, on Bells Lane, in pump house 10. Records available: 1945-49.

Jan. 26	65.85	Apr. 21	62.96	July 28	65.40	Oct. 18	69.65
Mar. 8	62.89	June 16	64.06	Sept. 14	67.72	Nov. 30	71.64

50-14-4. Rubber Reserve Co. well RR-23. On Louisville Refining Co. property, at 1300 S. Western Parkway. Records available: 1945-49.

Jan. 28	71.68	Apr. 22	70.22	July 28	72.25	Oct. 18	72.97
Mar. 10	69.69	June 17	71.70	Sept. 14	72.82	Dec. 9	73.11

51-8-1. Mrs. Ethel Waller. In yard of house on private drive, 0.25 mile north of Greenwood School. Records available: 1943-49.

Jan. 25	45.77	June 2	44.45	Sept. 7	44.02	Nov. 16	44.28
Mar. 5	45.24	July 22	44.13	Oct. 12	44.14	Dec. 29	44.55
Apr. 19	44.87						

51-9-1. George Nagel. 0.1 mile west of intersection of Lower Hunters Trace and Upper Hunters Trace. Records available: 1943-49.

Jan. 25	45.67	June 3	44.23	Sept. 8	43.99	Nov. 17	44.29
Mar. 8	45.19	July 26	44.52	Oct. 12	44.15	Dec. 29	44.51
Apr. 19	44.62						

51-10-1. Rubber Reserve Co. well RR-29. On south side of Rockford Lane, 0.3 mile east of Cane Run Road. Records available: 1945-49.

Jan. 25	34.55	June 7	33.22	Sept. 8	33.10	Nov. 17	33.46
Mar. 8	34.15	July 26	33.02	Oct. 13	33.28	Dec. 29	33.73
Apr. 19	33.68						

51-11-1. Thieneman Bros. On Camp Ground Road, 0.2 mile north of Lees Lane. Records available: 1944-49.

Jan. 25	53.44	June 7	50.86	Sept. 8	51.85	Nov. 18	52.78
Mar. 8	52.27	July 26	51.17	Oct. 13	52.30	Dec. 29	53.25
Apr. 19	51.10						



51-11-2. Kaufman Bros. On Cane Run Road, 0.1 mile south of Lees Lane. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	47.67	June 4	45.75	Sept. 8	45.97	Nov. 18	46.64
Mar. 8	47.06	July 26	45.71	Oct. 13	46.28	Dec. 29	47.07
Apr. 19	46.36						

51-11-4. Rubber Reserve Co. well RR-31. On Paul Baugh's property, west side of Cane Run Road, 0.1 mile north of Rockford Lane. Records available: 1945-49.

Jan. 25	40.93	June 7	39.31	Sept. 8	39.26	Nov. 22	39.81
Mar. 8	40.59	July 27	39.14	Oct. 13	39.51	Dec. 29	40.15
Apr. 20	39.92						

51-12-8. Lake Dreamland Country Club. On Lake Dreamland Road, 0.5 mile west of Camp Ground Road. Records available: 1943-49.

Jan. 25	41.50	June 7	46.30	Sept. 9	48.37	Nov. 18	48.63
Mar. 8	36.02	July 26	48.60	Oct. 13	48.90	Dec. 29	42.65
Apr. 20	39.20						

51-12-9. E. W. Owen. At end of Fern Leaf Road, 0.7 mile northwest of Camp Ground Road. Records available: 1944-49.

Jan. 25	0.42	Apr. 21	18.43	July 26	52.97	Oct. 14	55.97
Mar. 8	31.49	June 7	51.42	Sept. 9	53.14	Nov. 29	55.51

51-12-12. Rubber Reserve Co. well RK-20. In E. I. du Pont de Nemours lower field, on edge of second terrace above Ohio River normal pool. Records available: 1945-49.

Jan. 25	52.14	Apr. 20	52.34	Sept. 9	62.15	Nov. 18	64.03
Mar. 8	53.78	July 26	62.45	Oct. 14	64.58	Dec. 30	55.61

51-13-1. Rubber Reserve Co. well RR-21. On property of Carbide & Carbon Chemical Corporation, Camp Ground Road. Records available: 1945-49.

Jan. 26	40.33	Apr. 26	46.96	July 27	53.54	Oct. 14	57.14
Mar. 9	45.72	June 8	55.59	Sept. 13	56.70	Nov. 29	56.47

52-7-1. Lanson Beahl. On Johnstown Road, 1.5 mile west of Dixie Highway. Records available: 1943-49.

Jan. 24	39.42	June 2	37.29	Sept. 8	37.97	Nov. 16	38.68
Mar. 5	38.56	July 22	37.55	Oct. 12	38.29	Dec. 29	39.16
Apr. 26	37.58						

52-7-2. Rubber Reserve Co. well RK-47. On south side of Johnstown Road, 0.84 mile west of Dixie Highway. Records available: 1945-49.

Jan. 24	40.16	June 2	38.49	Sept. 8	38.29	Nov. 16	38.63
Mar. 5	39.70	July 22	38.25	Oct. 12	38.44	Dec. 29	38.98
Apr. 26	38.98						

52-8-1. Mrs. Anna Dohn. On private road, 0.45 mile south of Greenwood Road. Records available: 1943-49.

Jan. 25	46.73	June 2	45.50	Sept. 7	44.95	Nov. 16	45.19
Mar. 5	46.40	July 22	45.12	Oct. 12	45.05	Dec. 29	45.44
Apr. 19	45.95						

52-8-2. Rubber Reserve Co. well RR-38. On south side of Greenwood Road, 500 feet east of Sylvania Road. Records available: 1945-49.

Jan. 25	38.65	June 2	39.60	Sept. 7	39.75	Nov. 16	40.38
Mar. 5	41.15	July 22	39.52	Oct. 12	40.04	Dec. 29	40.76
Apr. 19	40.35						

52-10-2. H. F. Roggenkamp. On Lower River Road, 0.2 mile east of Lower Hunters Trace. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	45.58	June 3	42.93	Sept. 8	44.76	Nov. 17	45.88
Mar. 8	43.10	July 26	43.94	Oct. 12	45.34	Dec. 29	46.30
Apr. 19	42.75						

52-11-3. Rubber Reserve Co. well P-1. On Ohio River bank, north of Lees Lane. Records available: 1944-49.

Jan. 25	28.65	June 2	31.85	Sept. 8	35.58	Nov. 18	36.60
Mar. 8	26.70	July 26	33.90	Oct. 13	36.32	Dec. 29	33.79
Apr. 19	26.72						

52-11-5. Rubber Reserve Co. well E-2. Near church at west end of Lees Lane. Records available: 1944-49.

Jan. 25	50.82	June 3	53.47	Sept. 8	56.94	Nov. 18	57.99
Mar. 8	48.82	July 26	55.37	Oct. 13	57.68	Dec. 29	55.56
Apr. 19	48.64						

52-11-7. Rubber Reserve Co. well E-4. Near church at west end of Lees Lane. Records available: 1945-49.

Jan. 25	52.23	June 3	52.32	Sept. 8	56.00	Nov. 18	57.22
Mar. 8	48.52	July 26	54.62	Oct. 13	56.80	Dec. 29	55.64
Apr. 19	48.95						

52-11-16. Rubber Reserve Co. well W-1. On Ohio River bank, north of Lees Lane. Records available: 1944-49.

Jan. 25	(f)	June 2	11.28	Sept. 8	17.40	Nov. 18	18.96
Mar. 8	4.59	July 26	15.18	Oct. 13	18.60	Dec. 29	12.01
Apr. 19	5.06						

f Flooded.

52-11-21. Rubber Reserve Co. well RR-28. On corner of Lees Lane and Camp Ground Road. Records available: 1945-49.

Jan. 25	36.05	June 7	33.04	Sept. 8	34.85	Nov. 18	36.01
Mar. 8	33.76	July 26	34.00	Oct. 13	35.46	Dec. 29	36.42
Apr. 19	32.91						

52-12-2. Rubber Reserve Co. well RR-22. On property of Americus Petralli, on Ohio River bank, 0.1 mile south of Bramers Lane. Records available: 1945-49.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.42	28.31	30.88	32.29	37.23	42.09	45.73	46.14	46.89	47.35	47.32	46.94
2	41.32	28.09	31.15	32.45	37.24	43.65	45.76	46.20	46.69	47.28	47.17	46.87
3	40.62	27.84	31.69	32.89	37.28	44.27	45.76	46.34	46.62	47.29	46.81	46.62
4	39.94	28.17	32.28	33.81	37.29	44.56	46.05	46.40	46.62	47.15	46.73	46.06
5	38.71	28.61	35.87	36.39	37.55	44.91	46.01	46.67	46.78	47.27	46.49	45.77
6	37.08	28.99	34.14	35.42	37.91	44.97	46.13	46.49	46.82	47.33	45.98	46.29
7	36.10	29.90	35.18	35.75	38.39	45.14	46.21	46.52	46.86	47.44	45.81	47.02
8	35.67	30.46	36.22	35.99	39.10	45.26	46.18	46.58	46.90	47.40	46.40	47.17
9	35.42	31.31	36.59	36.36	40.09	45.47	46.23	46.59	46.96	47.40	46.81	47.11
10	35.02	32.00	35.87	36.39	41.06	45.59	46.13	46.67	47.01	47.23	47.04	47.14
11	34.72	32.99	34.72	36.32	42.16	45.64	46.04	46.77	47.09	47.35	47.06	47.09
12	34.72	33.81	34.12	36.05	42.60	45.55	46.05	46.81	47.07	47.37	47.25	46.97
13	34.94	34.84	34.09	35.90	42.65	45.66	46.07	46.72	47.06	47.36	47.28	45.28
14	35.37	35.54	34.21	35.76	42.94	45.62	46.09	46.63	47.12	47.44	47.31	43.95
15	35.75	34.37	34.47	35.67	43.24	45.68	45.77	46.72	47.07	47.41	47.31	42.64
16	36.22	32.60	34.44	35.46	43.49	44.92	45.94	46.54	47.13	47.44	47.32	41.30
17	36.74	31.36	34.73	34.85	43.76	43.60	45.55	46.38	47.17	47.35	47.36	40.36
18	36.82	30.13	35.30	34.68	43.86	43.72	45.21	46.60	47.22	47.36	47.34	39.87
19	37.26	29.28	35.71	34.44	44.03	44.43	45.18	46.39	47.22	47.32	47.32	39.71

52-12-2--Continued.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
20	36.97	28.99	35.56	34.40	44.19	44.96	45.38	45.96	47.22	47.44	47.32	39.67
21	36.97	28.54	35.19	.....	44.20	45.01	45.14	45.81	47.17	47.44	47.52	39.92
22	37.22	28.26	34.33	.....	44.23	45.12	44.48	46.36	47.11	47.41	47.34	40.37
23	37.07	28.46	33.99	.....	44.22	45.48	44.40	46.52	47.26	47.42	47.42	40.84
24	36.59	28.55	33.80	.....	44.27	45.62	44.74	46.61	47.20	47.36	47.34	41.00
25	35.10	29.31	34.26	37.65	43.96	45.73	44.88	46.78	47.24	47.41	47.39	41.17
26	33.67	29.73	34.74	37.82	43.34	45.74	44.86	46.71	47.27	47.48	47.39	41.33
27	32.25	29.98	33.75	37.78	42.76	45.76	45.04	46.75	47.15	47.47	47.48	41.38
28	31.06	30.56	32.99	37.71	42.06	45.85	45.74	46.90	47.28	47.49	47.35	41.26
29	30.14		32.45	37.65	41.44	45.71	45.95	46.78	47.34	47.46	47.22	41.12
30	29.08		32.16	37.57	41.22	45.66	46.11	46.82	47.19	47.42	46.94	41.11
31	28.46		32.01		41.49		46.12	46.68		47.36		40.94

53-6-1. Rubber Reserve Co. well RR-46. On south side of Bethany Lane, 0.27 mile east of Lower River Road. Records available: 1945-49.

Daily noon water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.81	31.81	30.36	29.30	29.06	29.51	30.24	30.95	31.58	32.05	.....	32.85
2	32.76	31.86	30.24	29.42	29.18	29.55	30.26	30.96	31.59	32.06	.....	32.88
3	32.79	31.52	30.18	29.34	29.21	29.58	30.27	31.00	31.59	32.07	.....	32.88
4	32.77	31.35	29.96	29.44	29.20	29.57	30.28	31.04	31.60	32.08	.....	32.89
5	.....	31.54	29.86	29.15	29.15	29.58	30.31	31.05	31.62	32.09	.....	32.89
6	.....	31.33	29.93	29.15	29.10	29.61	30.34	31.07	31.64	32.08	.....	32.88
7	.....	31.42	30.14	29.24	29.07	29.63	30.36	31.08	31.65	32.14	32.54	32.91
8	.....	31.31	29.88	29.28	29.10	29.70	30.42	31.09	31.66	32.16	32.56	32.93
9	.....	31.33	29.68	29.38	29.11	29.71	30.44	31.11	31.69	32.17	32.57	32.94
10	32.74	31.26	29.56	29.32	29.17	29.73	30.46	31.14	31.70	32.17	32.57	32.94
11	32.59	31.48	29.97	29.19	29.23	29.73	30.48	31.15	31.70	32.18	32.58	32.95
12	32.49	31.12	29.93	29.12	29.22	29.75	30.48	31.15	31.73	32.20	32.61	32.98
13	32.46	31.06	29.86	28.96	29.20	29.78	30.50	31.17	31.73	32.23	32.61	33.02
14	32.43	30.96	29.75	29.14	29.20	29.80	30.51	31.19	31.78	32.24	32.64	33.02
15	32.44	.....	29.75	29.22	29.21	29.81	30.58	31.21	31.78	32.24	32.65	32.99
16	32.40	.....	29.67	29.39	29.22	29.83	30.59	31.25	31.79	32.25	32.65	32.97
17	32.49	.....	29.51	29.07	29.26	29.89	30.60	31.26	31.81	32.28	32.68	32.96
18	32.05	.....	29.48	29.18	29.26	29.97	30.67	31.26	31.82	32.30	32.69	32.90
19	32.40	.....	29.78	29.37	29.22	29.98	30.68	31.30	31.85	32.30	32.65	32.99
20	32.52	.....	29.64	29.28	29.24	29.98	30.70	31.35	31.87	32.30	32.72	32.96
21	32.11	30.76	29.42	29.17	29.19	29.97	30.72	31.37	31.87	32.30	32.75	32.88
22	32.22	30.42	29.10	29.04	29.23	30.01	30.76	31.38	31.87	32.33	32.76	32.86
23	32.07	30.57	29.43	29.12	29.42	30.04	30.79	31.40	31.91	32.34	32.72	33.03
24	31.93	30.27	29.47	29.21	29.37	30.03	30.80	31.41	31.94	32.37	32.71	33.03
25	.....	30.39	29.42	29.23	29.43	30.08	30.81	31.44	31.95	32.38	32.78	32.94
26	.....	30.43	29.36	29.14	29.37	30.15	30.82	31.46	31.97	32.41	32.78	32.83
27	31.25	30.12	29.10	29.07	29.44	30.16	30.86	31.46	31.96	32.41	32.78	32.84
28	31.55	30.26	29.44	29.17	29.44	30.18	30.88	31.46	31.97	32.41	32.77	32.99
29	32.09		29.55	29.11	29.46	30.20	30.89	31.50	32.01	32.43	32.79	32.91
30	31.96		29.30	29.07	29.46	30.21	30.89	31.51	32.05	32.43	32.82	32.87
31	31.54		29.05		29.48		30.94	31.51		32.46		32.83

a Tape measurement.

i Interpolated.

53-8-2. Rubber Reserve Co. well RR-45. On Greenwood Road, 0.2 mile west of Lower River Road. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	32.16	June 2	33.97	Sept. 7	37.25	Nov. 16	38.13
Mar. 5	28.35	July 22	36.12	Oct. 12	37.89	Dec. 29	35.73
Apr. 19	29.84						

53-9-1. Henry Hufflage. At Arrowhead Farms, on Lower River Road between Lower Hunters Trace and Greenwood Road. Records available: 1945-49.

## 53-9-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	53.10	June 2	52.27	Sept. 8	55.60	Nov. 17	56.70
Mar. 5	49.15	July 26	54.43	Oct. 12	56.30	Dec. 29	55.64
Apr. 19	50.00						

53-9-2. Mrs. A. J. Seibert. At Alvanna Farms, on Lower River Road, about 0.5 mile north of Greenwood Road. Records available: 1944-49.

Jan. 25	45.40	June 2	41.88	Sept. 6	44.83	Nov. 17	46.07
Mar. 5	40.36	July 26	42.78	Oct. 12	45.47	Dec. 29	45.72
Apr. 19	40.53						

53-10-1. W. E. Miller. In Miller's orchard on Lower River Road, about 0.5 mile west of Lower Hunters Trace. Records available: 1943-49.

Jan. 25	38.87	June 2	40.12	Sept. 8	44.07	Nov. 17	45.11
Mar. 5	34.24	July 26	42.66	Oct. 12	44.81	Dec. 29	42.54
Apr. 19	36.31						

53-11-1. Rubber Reserve Co. well RR-43. On property of A. J. Miller, on Lower River Road, about 0.15 mile west of Lower Hunters Trace. Records available: 1945-49.

Jan. 25	29.00	June 2	38.79	Sept. 8	41.24	Nov. 17	41.50
Mar. 5	27.85	July 26	39.07	Oct. 12	41.45	Dec. 29	36.44
Apr. 19	28.75						

54-4-1. Rodney Williams. On Lower River Road, about 0.9 mile north of Watson Lane. Records available: 1944-49.

Jan. 24	46.78	June 2	51.98	Sept. 7	55.37	Nov. 16	57+
Mar. 5	41.20	July 22	54.57	Oct. 12	57+	Dec. 29	52.25
Apr. 19	45.75						

d Dry at this depth.

54-7-1. Rubber Reserve Co. well RR-44. On Mike Linnig's property, west of Lower River Road and 0.2 mile north of Johnstontown Road. Records available: 1945-49.

Jan. 24	22.98	June 2	29.69	Sept. 8	31.94	Nov. 16	32.53
Mar. 5	22.02	July 22	30.00	Oct. 12	32.30	Dec. 29	28.92
Apr. 26	25.53						

## MARYLAND

By Gerald Meyer

### PROGRAM OF WORK

The observation-well program in Maryland, begun in 1943, was continued during 1949 in cooperation with the Maryland Department of Geology, Mines and Water Resources as a part of the investigation of the ground-water resources of the State.

Fifteen of the 23 observation wells added in 1949 are in the five counties which comprise southern Maryland, and are part of an intensive investigation of the occurrence of ground water in the area. Of the remaining new observation wells, one is in the Coastal Plain area in Harford County, five are in the Piedmont province, and two are in the Appalachian province. During 1949 a total of 1,078 individual water-level measurements were made in 190 wells. Continuous water-stage recorders were maintained on five wells throughout the year and on four wells during part of the year.

### PRECIPITATION

The mean annual precipitation in 1949 for Maryland, as reported by the U. S. Weather Bureau, was 41.16 inches, which is 0.49 inch below normal. Although precipitation during January, February, May, and July was above normal, a deficiency in precipitation in the remaining months of the year resulted in an annual net decline in water levels for most shallow water-table aquifers.

### FLUCTUATIONS OF WATER LEVELS

Most of the observation wells in the Baltimore industrial area are near or within areas of heavy ground-water pumpage and the major water-level fluctuations measured in them result from changes in the rates of ground-water pumping. These changes cannot be determined accurately as only a small percentage of the ground water consumed in the Baltimore industrial area is metered. Based on a study of the changes in water levels during

the year and a comparison between the water-level records for 1949 and previous years, the total ground-water pumpage in the Baltimore industrial area in 1949 is estimated to have been approximately 35 to 40 million gallons a day. The total pumpage in 1949 appears to have been slightly less than in 1948.

Approximately 80 percent of the pumpage in the Baltimore industrial area is obtained from the Patuxent formation. The other aquifers, in their descending order of importance, in this area are the Patapsco formation, the Pleistocene sediments, and the pre-Cambrian crystalline rocks. It is difficult to determine the annual net change of water level or artesian head for the aquifers of the Baltimore industrial area because most of the observation wells fluctuate widely as a result of daily pumpage changes. For this reason the following values of annual net change in artesian head should be considered as only approximately correct:

Patuxent formation

Sparrows Point district	Rise of 0.5 foot to 4 feet
Dundalk-Canton district	Rise of 2.5 feet
Highlandtown district	Decline of 0.5 foot
Harbor district	Rise of 0.5 foot to 1.5 feet
Fairfield district	Rise of 7 to 21 feet
Curtis Bay district	Rise of 20 feet
Sparrows Point district	No change to a rise of 6 feet
Curtis Bay district	Decline of 1.5 feet

Shallow observation wells in the southern Maryland area, for which adequate records are available, show a net decline in water levels of 0.5 foot to 13 feet, indicating a large decrease in ground-water storage in shallow water-table aquifers for the year. It was observed, during the last quarter of the year, that, owing to the low position of the water table, some shallow wells in this area were not capable of yielding an adequate supply of water. Some well owners deepened their dug wells and others replaced them with wells drilled to artesian aquifers. Of the 18 artesian wells observed for most or all of the year in southern Maryland, 9 show a net rise ranging from 0.5 foot to 1.5 feet and 9 show a net decline ranging from 0.5 foot to about 21 feet. The decline of about 21 feet measured in well PG-Eb 2 is not a true representation of the change in artesian head because this well is within a locality of heavy pumpage and is itself pumped occasionally. Ignoring this well, the average annual net change in the artesian aquifers of southern Maryland in 1949 was a decline of approximately 1.5 feet.

Measurements in observation wells in central Maryland during 1949 indicate that the water levels in this area generally followed the downward trend of water levels throughout the State. An average of the net changes recorded in 15 observation wells in this area shows net decline of about 7.5 feet. Well Mont-Be 1 with a net decrease of 17.29 feet had the greatest net decline. The water level in this well rose slightly between January and April, but, with the exception of a minor rise in September, declined during the remainder of the year. Automatic water-stage recorders were maintained on wells Mont-De 1 and Mont-Ef 8, at Gaithersburg, for a part of the year and on well Mont-Eg 1, at Colesville, throughout the year. The well at Colesville has been measured either periodically or continuously by means of an automatic water-stage recorder since 1932.

All of the observation wells in the westernmost part of the State--Allegany, Washington, and Garrett Counties--showed an annual net decline for the year ranging from about 0.5 foot to about 16 feet. A 4-month record for well Gar-Bc 1 showed a small net rise. The greatest net change for the year in this part of Maryland occurred in well Wa-Eh 3 with a decrease of 15.68 feet. The water level in this well rises rapidly during and after heavy precipitation and declines sharply during dry periods. The highest water level recorded in this well for the period of record was 16.64 feet on February 11, 1949.

## WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS\*

Baltimore City

4N2W-9. Baltimore Country Club. In Baltimore, at Falls and Harvest Rds. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	8.28	May 18	8.83	Aug. 19	10.40	Nov. 28	11.40
Mar. 14	6.46	June 23	9.57	Sept. 22	11.09	Dec. 30	11.41
Apr. 12	8.74	July 28	10.39	Oct. 11	11.09		

1S3E-12. Kimball Tyler Co. In Baltimore, at Haven and Gough Sts. Records available: 1944-49.

Feb. 2	114.64	May 18	114.08	Aug. 30	116.14	Nov. 28	114.95
Mar. 14	111.87	June 23	114.08	Sept. 22	116.14	Dec. 30	115.12
Apr. 12	113.89	July 29	115.64	Oct. 28	116.98		

2S1E-16. Buck Glass Co. In Baltimore, at Lawrence St. and Fort Ave. Records available: 1944-49.

Jan. 11	49.32	May 27	43.65	Aug. 15	41.41	Nov. 8	49.94
Feb. 16	47.02	June 14	37.36	Sept. 22	48.56	Dec. 29	48.59
Mar. 15	48.21	July 28	48.81	Oct. 11	48.21		

\*Observation wells in Maryland are listed alphabetically by counties and numerically within each county.

2S3E-11. J. S. Young Co. In Baltimore, at Boston and Luzerne Sts.  
Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	34.39	May 10	32.08	Aug. 30	31.41	Nov. 28	32.08
Mar. 14	32.50	June 23	32.59	Sept. 22	32.36	Dec. 30	32.55
Apr. 12	32.98	July 29	30.60	Oct. 23	31.99		

2S3E-1. U. S. Army. In Baltimore, on Holabird Ave., at Pumphrey St.  
Records available: 1943-49.

Feb. 2	99.17	May 18	96.23	Aug. 30	93.65	Nov. 28	89.37
Mar. 14	93.50	June 23	94.67	Sept. 21	98.70	Dec. 30	95.45
Apr. 12	97.63	July 29	85.60	Oct. 28	96.24		

2S3E-4. U. S. Army. In Baltimore, on Holabird Ave., at Pumphrey St.  
Records available: 1943-49.

Feb. 2	90.63	May 18	87.09	Aug. 30	84.10	Nov. 28	84.89
Mar. 14	88.88	June 23	87.58	Sept. 21	84.02	Dec. 30	85.20
Apr. 12	87.99	July 29	83.19	Oct. 28	84.56		

3S3E-3. Federal Yeast Co. In Baltimore. Records available: 1943-49.

Feb. 2	42.77	May 18	43.41	Aug. 30	41.13	Nov. 28	40.25
Mar. 14	42.12	June 23	43.59	Sept. 21	41.38	Dec. 30	40.72
Apr. 12	42.06	July 29	41.05	Oct. 28	40.61		

4S2E-4. Weyerhaeuser Lumber Co. In Baltimore 30 feet east of Childs Street and 800 feet southwest of docks. Unused drilled industrial well, diameter 6 inches, depth 290 feet. Records available: 1945-48. No measurement made in 1949.

4S3E-3. Virginia-Carolina Chemical Co. In Baltimore. Unused drilled industrial well, diameter 18 inches. Records available: 1947-49.

Daily high and low water level, from recorder charts

Day	January		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	62.12	63.87	.....	.....	.....	.....	55.07	57.32	53.65	54.62
2	59.84	62.12	.....	.....	.....	.....	54.05	55.07	54.62	55.46
3	58.61	59.84	.....	.....	.....	.....	54.52	55.41	55.46	56.65
4	58.68	59.03	.....	.....	.....	.....	55.35	55.66	56.25	56.97
5	58.90	59.92	.....	.....	.....	.....	55.32	55.89	55.20	56.25
6	59.92	62.30	.....	.....	.....	.....	55.67	56.02	54.82	55.48
7	62.30	63.56	.....	.....	.....	.....	55.43	56.17	55.20	56.65
8	62.89	63.72	56.96	57.81	.....	.....	53.10	55.43	56.52	57.55
9	60.35	62.89	56.30	57.52	.....	.....	51.92	53.10	57.12	58.01
10	59.36	60.35	57.52	58.06	.....	.....	.....	.....	57.62	58.28
11	59.94	61.66	58.06	59.40	.....	.....	.....	.....	57.52	58.30
12	61.66	63.92	58.46	59.27	.....	.....	.....	.....	56.75	57.65
13	63.92	64.75	57.88	58.85	.....	.....	.....	.....	56.09	56.75
14	64.75	65.90	56.68	57.94	.....	.....	.....	.....	56.15	56.48
15	63.46	65.93	56.72	58.30	.....	.....	.....	.....	56.60	57.15
16	60.86	63.46	58.03	58.58	.....	.....	.....	.....	57.09	57.60
17	60.06	60.86	57.95	59.00	.....	.....	.....	.....	57.50	57.79
18	60.75	62.14	.....	.....	.....	.....	.....	.....	57.52	58.12
19	61.95	63.68	.....	.....	56.95	57.65	.....	.....	56.56	57.52
20	.....	.....	.....	.....	57.65	59.32	.....	.....	56.27	56.65
21	.....	.....	.....	.....	.....	.....	.....	.....	56.40	57.24
22	.....	.....	.....	.....	.....	.....	.....	.....	56.98	58.23
23	.....	.....	.....	.....	.....	.....	.....	.....	57.98	58.71
24	.....	.....	.....	.....	.....	.....	.....	.....	58.23	58.70
25	.....	.....	.....	.....	53.36	54.09	.....	.....	57.68	58.70
26	.....	.....	.....	.....	54.09	55.31	.....	.....	56.34	57.70
27	.....	.....	.....	.....	55.31	56.97	.....	.....	55.37	56.34
28	.....	.....	.....	.....	56.97	57.96	.....	.....	.....	.....
29	.....	.....	.....	.....	57.95	58.36	.....	.....	.....	.....
30	.....	.....	.....	.....	57.32	58.43	.....	.....	.....	.....
31	.....	.....	.....	.....	.....	.....	53.10	53.65	.....	.....



## 4S3E-3--Continued.

Daily high and low water level, from recorder charts

Day	July		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	50.27	54.00	.....	.....	.....	.....	.....	.....	.....	.....
4	48.59	50.27	.....	.....	55.09	55.86	.....	.....	.....	.....
5	47.89	48.59	.....	.....	55.82	56.90	58.62	59.36	.....	.....
6	47.72	48.44	.....	.....	56.90	57.50	.....	.....	.....	.....
7	48.02	49.04	.....	.....	.....	.....	.....	.....	.....	.....
8	48.47	49.22	53.64	55.27	.....	.....	.....	.....	.....	.....
9	48.91	49.26	55.27	56.25	.....	.....	.....	.....	.....	.....
10	47.57	48.91	55.51	56.50	.....	.....	.....	.....	.....	.....
11	47.11	47.67	54.93	55.57	.....	.....	.....	.....	.....	.....
12	47.29	47.74	54.67	55.61	54.72	55.50	.....	.....	.....	.....
13	47.13	47.53	55.61	56.19	.....	.....	.....	.....	.....	.....
14	47.33	47.62	56.19	57.00	.....	.....	.....	.....	.....	.....
15	47.17	47.58	.....	.....	.....	.....	.....	.....	.....	.....
16	46.35	47.07	.....	.....	.....	.....	.....	.....	.....	.....
17	44.75	46.35	.....	.....	53.65	54.12	.....	.....	.....	.....
18	43.95	46.32	.....	.....	.....	.....	.....	.....	.....	.....
19	46.32	48.08	.....	.....	.....	.....	.....	.....	.....	.....
20	47.89	48.65	.....	.....	.....	.....	.....	.....	.....	.....
21	48.44	49.24	60.01	60.53	.....	.....	.....	.....	.....	.....
22	48.77	49.50	.....	.....	56.06	56.95	.....	.....	.....	.....
23	49.08	49.50	.....	.....	55.40	56.44	.....	.....	.....	.....
24	49.07	49.52	.....	.....	54.66	55.58	.....	.....	.....	.....
25	48.89	49.53	.....	.....	55.43	56.85	.....	.....	.....	.....
26	49.00	49.41	.....	.....	55.57	56.80	.....	.....	.....	.....
27	48.62	49.37	.....	.....	57.21	57.53	.....	.....	.....	.....
28	.....	.....	.....	.....	57.46	57.69	.....	.....	.....	.....
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	.....	.....	.....	.....	55.05	55.92	.....	.....	.....	.....
31	.....	.....	.....	.....	.....	.....	.....	.....	55.17	56.47

(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	63.16	May 31	53.15	Sept. 7	53.27	Oct. 21	56.63
Mar. 7	57.62	June 14	56.18	20	58.05	27	57.23
15	55.91	July 8	48.61	Oct. 3	54.53	Nov. 4	57.62
Apr. 19	56.95	28	49.04	11	54.75	Dec. 30	56.05
25	53.36	Aug. 31	52.91				

5S3E-15. U. S. Industrial Chemical Co. well 1701. 50 feet north of Patapsco and 800 feet west of Fairfield Rd. Unused drilled industrial well, diameter 6 inches, depth 212 feet. Records available: 1945-49.

Jan. 11	133.91	Apr. 14	105.63	July 28	69.51	Oct. 11	89.30
Feb. 16	127.32	May 31	105.20	Aug. 31	95.70	Nov. 8	107.55
Mar. 15	123.49	June 14	97.83	Sept. 22	110.20	Dec. 29	119.56

5S3E-16. U. S. Industrial Chemical Co. well 1702. 150 feet north of Patapsco and 800 feet west of Fairfield Rd. Unused drilled industrial well, diameter 8 inches, depth 347 feet. Records available: 1945-49.

Jan. 11	120.36	Apr. 14	111.23	Aug. 31	78.60	Nov. 8	102.16
Feb. 16	109.23	June 14	81.75	Sept. 22	86.76	Dec. 29	99.03
Mar. 15	111.29	July 28	74.56	Oct. 11	81.11		

6S2E-6. U. S. Industrial Alcohol Co. In Baltimore at Birch and Curtis Sts. Records available: 1943-49.

Jan. 11	104.44	Apr. 14	100.09	July 28	87.16	Oct. 11	94.65
Feb. 16	101.04	May 27	97.50	Aug. 15	104.67	Nov. 8	104.27
Mar. 15	103.12	June 14	101.33	Sept. 22	90.59	Dec. 29	84.20

6S2E-9. U. S. Industrial Alcohol Co. well 3929. In Baltimore, at Benhill and Andard Sts. Used drilled industrial well, diameter 10 inches, depth 293.5 feet. Records available: 1945-46. No measurement made in 1947-49.

### Allegany County

All-Ag 1. Methodist Church. Lat. 39°40'04", long. 78°33'50". In Flintstone. Unused dug well, depth 11.1 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	1.65	May 23	4.49	Aug. 11	4.23	Nov. 9	4.75
22	1.47	June 24	4.77	Sept. 13	4.46	30	4.95
Mar. 6	2.03	July 12	3.69	Oct. 7	5.09	Dec. 14	4.47
May 9	4.97	Aug. 8	3.78				

All-Bd 2. Cumberland Brewing Co. Lat. 39°39'30", long. 78°46'13". In Cumberland. Unused drilled industrial well, diameter 6 inches, depth 100 feet. Records available: 1946-49.

Feb. 14	10.84	May 23	11.20	Aug. 11	13.25	Nov. 1	11.40
22	10.84	June 18	11.25	Sept. 7	11.35	30	11.47
Mar. 2	10.88	July 6	11.73	Oct. 4	12.55	Dec. 5	12.19
May 3	11.29	Aug. 3	11.61				

All-Da 1. Cumberland & Pennsylvania Railroad Co. Lat. 39°29'38", long. 79°02'37". At Westernport. Unused drilled industrial well, diameter 12 inches, depth 87.6 feet. Records available: 1946-49.

Feb. 15	2.63	May 8	4.25	Aug. 7	4.64	Oct. 6	4.75
23	2.57	June 13	4.63	11	4.73	Nov. 8	4.51
Mar. 3	2.97	July 11	4.51	Sept. 12	4.73	Dec. 13	4.30

### Anne Arundel County

AA-Ad 10. U. S. Army Ordnance Depot's well 3. Lat. 39°12'09", long. 76°35'39". Unused drilled well, diameter 8 inches, depth 108.5 feet. Records available: 1946-49.

Jan. 11	31.31	Apr. 14	31.70	July 28	30.98	Nov. 15	32.08
Feb. 16	31.26	May 27	30.62	Aug. 31	31.19	Dec. 29	32.70
Mar. 5	32.18	June 20	30.61	Oct. 27	32.14		

AA-Ad 24. Seth Linthicum. Lat. 39°12'24", long. 76°39'16". At Linthicum Heights. Unused drilled well, diameter 6 inches, depth 175 feet. Records available: 1946-48. No measurement made in 1949.

AA-Ad 27. S. S. Tracey. Lat. 39°10'42", long. 76°36'20". Used drilled domestic well, diameter 4 inches, depth 73 feet. Records available: 1946-48. No measurement made in 1949.

AA-Ad 29. Anne Arundel Sanitary Commission. In Glen Burnie. Unused drilled public-supply well, diameter 3 inches, depth 530 feet. Records available: 1948-49.

### High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	.....	.....	.....	.....	13.27	13.13	13.50	13.43	.....	.....
2	.....	.....	.....	.....	.....	.....	13.15	13.10	13.59	13.49	.....	.....
3	.....	.....	.....	.....	.....	.....	13.22	13.14	13.60	13.55	.....	.....
4	.....	.....	.....	.....	.....	.....	13.22	13.12	13.55	13.50	.....	.....
5	.....	.....	.....	.....	.....	.....	13.36	13.11	13.62	13.55	.....	.....
6	.....	.....	.....	.....	.....	.....	13.45	13.29	13.74	13.62	.....	.....
7	.....	.....	.....	.....	.....	.....	13.34	13.27	13.79	13.73	.....	.....
8	.....	.....	.....	.....	12.72	12.67	13.37	13.30	13.73	13.61	.....	.....
9	.....	.....	.....	.....	12.79	12.61	13.30	13.20	13.69	13.62	.....	.....
10	.....	.....	.....	.....	12.92	12.79	13.20	13.12	13.72	13.62	.....	.....
11	.....	.....	.....	.....	12.93	12.83	13.29	13.19	13.62	13.57	.....	.....

AA-Ad 29--Continued.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
12	.....	.....	.....	.....	12.85	12.80	13.38	13.23	13.61	13.55	.....	.....
13	.....	.....	.....	.....	12.82	12.73	13.62	13.58	13.61	13.53	.....	.....
14	.....	.....	.....	.....	12.82	12.73	13.62	13.52	13.65	13.58	.....	.....
15	.....	.....	.....	.....	12.87	12.72	13.64	13.61	13.68	13.60	.....	.....
16	.....	.....	.....	.....	12.80	12.70	13.61	13.42	13.68	13.62	.....	.....
17	.....	.....	12.67	12.59	12.85	12.76	13.42	13.36	13.63	13.59	.....	.....
18	.....	.....	12.60	12.53	13.05	12.82	13.43	13.37	13.70	13.62	.....	.....
19	.....	.....	12.76	12.59	12.82	12.69	13.43	13.32	13.83	13.70	.....	.....
20	.....	.....	12.78	12.67	12.71	12.63	13.33	13.28	13.89	13.74	.....	.....
21	.....	.....	12.67	12.60	12.80	12.70	13.38	13.32	13.74	13.68	13.92	13.80
22	.....	.....	12.73	12.60	13.06	12.80	13.52	13.40	13.90	13.67	13.94	13.90
23	.....	.....	.....	.....	13.12	13.03	13.60	13.43	13.97	13.88	13.93	13.78
24	.....	.....	.....	.....	13.03	12.96	13.58	13.42	13.98	13.83	13.84	13.78
25	.....	.....	.....	.....	13.02	12.96	13.43	13.34	13.95	13.87	13.90	13.80
26	.....	.....	.....	.....	13.11	13.00	13.54	13.38	13.88	13.85	13.90	13.80
27	12.39	12.33	.....	.....	13.29	13.11	13.58	13.52	13.85	13.81	13.86	13.80
28	12.57	12.39	.....	.....	13.28	13.09	13.55	13.43	.....	.....	13.82	13.68
29	.....	.....	.....	.....	13.12	13.05	13.43	13.33	.....	.....	13.69	13.62
30	.....	.....	.....	.....	13.23	13.10	13.43	13.37	.....	.....	.....	.....
31	.....	.....	.....	.....	13.32	13.22	.....	.....	.....	.....	.....	.....

High and low daily water level, from recorder charts

Day	September		October		November		December	
	High	Low	High	Low	High	Low	High	Low
1	13.63	13.52	13.13	12.99	13.22	13.11	12.87	12.72
2	13.50	13.35	13.06	12.97	13.20	13.11	12.79	12.67
3	13.41	13.34	13.05	12.98	13.20	13.13	12.67	12.60
4	13.43	13.38	13.12	13.04	13.20	13.13	12.72	12.60
5	13.56	13.47	13.19	13.11	13.15	13.04	12.78	12.69
6	13.57	13.51	13.17	13.08	13.04	12.97	12.73	12.66
7	13.53	13.41	13.15	13.09	13.10	13.02	12.85	12.71
8	13.52	13.46	13.16	13.08	13.13	13.07	12.76	12.60
9	13.51	13.40	13.16	13.08	13.13	13.02	12.80	12.51
10	13.42	13.28	13.19	13.11	13.07	13.02	12.51	12.46
11	13.32	13.23	13.21	13.11	13.10	13.06	12.55	12.49
12	13.32	13.24	13.26	13.16	13.10	13.02	12.67	12.55
13	13.45	13.31	13.20	13.02	13.18	13.02	12.75	12.67
14	13.49	13.40	13.06	12.99	13.24	13.18	12.68	12.61
15	13.47	13.40	13.14	13.05	13.22	13.09	12.61	12.53
16	13.46	13.40	13.14	13.01	13.14	13.00	12.55	12.43
17	13.44	13.33	13.05	12.95	13.05	13.00	12.44	12.38
18	13.46	13.34	13.04	12.98	13.03	12.98	12.58	12.43
19	13.55	13.45	13.07	12.98	13.01	12.92	12.64	12.57
20	13.54	13.40	13.04	12.97	13.13	13.01	12.63	12.56
21	13.40	13.22	13.04	12.97	13.11	13.01	12.68	12.56
22	13.45	13.32	13.11	13.02	13.03	12.87	12.77	12.66
23	13.53	13.42	13.10	12.96	12.99	12.84	12.79	12.66
24	13.42	13.29	13.02	12.94	12.99	12.85	12.66	12.40
25	13.29	13.16	12.97	12.86	13.13	12.98	12.40	12.27
26	13.21	13.11	13.01	12.97	13.11	12.91	12.55	12.31
27	13.27	13.18	12.98	12.81	12.93	12.87	12.72	12.55
28	13.41	13.28	12.95	12.83	12.82	12.78	12.72	12.56
29	13.42	13.36	13.04	12.94	13.01	12.80	12.68	12.46
30	13.38	13.13	13.18	13.04	13.01	12.88	12.46	12.35
31	.....	.....	13.32	13.18	.....	.....	12.37	12.32

High and low daily water level, from recorder charts

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	12.13	Feb. 17	12.67	June 15	13.76	Sept. 30	13.17
19	12.21	Mar. 8	12.67	20	13.82	Oct. 27	12.81
27	12.33	Apr. 6	13.45	July 28	13.61	Nov. 30	12.96
28	12.50	12	13.30	Aug. 31	13.58	Dec. 29	12.53
Feb. 3	12.20	May 27	13.84				

AA-Ad 30. Anne Arundel Sanitary Commission. Unused augured well, diameter 4 inches, depth 15 feet. Records available: 1948-49.

High and low daily water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	....	8.64	8.66	8.44	8.48	8.60	8.62	9.11	9.14	9.15	9.21
2	....	....	8.62	8.65	8.46	8.48	8.61	8.65	9.13	9.14	9.20	9.25
3	....	....	8.54	8.68	8.47	8.50	8.62	8.65	9.12	9.15	9.25	9.30
4	....	....	8.52	8.56	8.47	8.50	8.64	8.69	9.15	9.18	9.30	9.35
5	....	....	8.50	8.52	8.48	8.51	8.67	8.69	9.17	9.19	9.35	9.37
6	....	....	8.49	8.52	8.49	8.53	8.63	8.68	9.19	9.22	9.37	9.42
7	....	....	8.47	8.49	8.53	8.59	8.66	8.69	9.22	9.26	9.42	9.46
8	....	....	8.45	8.49	8.58	8.62	8.67	8.71	9.26	9.29	9.46	9.48
9	....	....	8.43	8.46	8.59	8.62	8.70	8.75	9.28	9.30	9.48	9.50
10	....	....	8.42	8.45	8.59	8.62	8.73	8.75	9.30	9.33	9.49	9.51
11	....	....	8.41	8.43	8.60	8.64	8.72	8.77	9.32	9.35	9.50	9.54
12	8.52	8.57	8.40	8.43	8.60	8.65	8.75	8.85	9.33	9.36	9.54	9.58
13	8.55	8.59	8.39	8.42	8.63	8.66	8.80	8.85	9.36	9.40	9.58	9.62
14	8.57	8.65	8.40	8.42	8.64	8.70	8.80	8.85	9.40	9.41	9.62	9.66
15	8.65	8.69	8.40	8.45	8.65	8.70	8.81	8.85	9.41	9.43	9.62	9.68
16	8.68	8.72	8.44	8.45	8.69	8.72	8.85	8.87	9.42	9.45	9.62	9.64
17	8.69	8.77	8.44	8.51	8.70	8.73	8.85	8.87	9.43	9.46	9.61	9.64
18	8.75	8.79	8.49	8.54	8.67	8.73	8.85	8.88	9.45	9.47	9.62	9.65
19	8.76	8.83	8.51	8.54	8.69	8.74	8.86	8.90	9.45	9.50	9.62	9.66
20	8.81	8.87	8.49	8.54	8.74	8.75	8.89	8.91	9.49	9.52	9.65	9.68
21	8.83	8.87	8.51	8.57	8.74	8.77	8.90	8.92	9.50	9.54	9.67	9.72
22	8.81	8.87	8.55	8.58	8.74	8.77	8.91	8.92	9.48	9.54	9.72	9.75
23	8.84	8.87	8.52	8.55	8.70	8.77	8.90	9.95	9.32	9.48	9.75	9.78
24	8.81	8.87	8.50	8.53	3.68	8.72	8.91	8.95	9.25	9.32	9.78	9.81
25	8.84	8.89	8.46	8.50	8.67	8.70	8.95	8.98	9.19	9.25	9.81	9.84
26	8.84	8.89	8.47	8.50	8.65	8.68	8.96	9.00	9.11	9.19	9.83	9.85
27	8.81	8.86	8.47	8.50	8.61	8.65	8.98	9.00	9.08	9.15	9.85	9.89
28	8.78	8.85	8.42	8.48	8.61	8.65	8.99	9.04	9.10	9.14	9.89	9.91
29	8.76	8.79			8.63	8.65	9.04	9.09	9.09	9.11	9.89	9.92
30	8.73	8.76			8.61	8.64	9.09	9.11	9.07	9.12	9.92	9.94
31	8.65	8.72			8.61	8.64			9.10	9.15		

High and low daily water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	9.92	9.94	10.64	10.69	11.12	11.17	11.44	11.46	11.52	11.62	11.64	11.66
2	9.93	9.98	10.65	10.71	11.14	11.19	11.42	11.47	11.49	11.58	11.65	11.66
3	9.97	10.02	10.68	10.72	11.16	11.21	11.46	11.49	11.56	11.60	11.65	11.67
4	10.02	10.05	10.67	10.72	11.21	11.23	11.45	11.50	11.55	11.59	11.64	11.68
5	10.05	10.13	10.68	10.72	11.22	11.25	11.46	11.50	11.54	11.60	11.65	11.68
6	10.13	10.20	10.70	10.75	11.25	11.28	11.46	11.50	11.56	11.59	11.66	11.69
7	10.19	10.21	10.72	10.76	11.28	11.31	11.43	11.50	11.54	11.60	11.66	11.69
8	10.16	10.23	10.73	10.78	11.24	11.32	11.44	11.49	11.58	11.63	11.66	11.68
9	10.20	10.25	10.78	10.81	11.29	11.33	11.47	11.51	11.58	11.63	11.67	11.69
10	10.22	10.25	10.81	10.85	11.31	11.35	11.50	11.53	11.58	11.62	11.67	11.69
11	10.20	10.28	10.85	10.88	11.35	11.38	11.49	11.54	11.59	11.64	11.69	11.70
12	10.21	10.28	10.88	10.90	11.35	11.39	11.50	11.55	11.62	11.64	11.64	11.70
13	10.20	10.27	10.86	10.90	11.32	11.39	11.50	11.54	11.59	11.65	11.63	11.65
14	10.24	10.29	10.85	10.90	11.33	11.40	11.49	11.53	11.55	11.60	11.63	11.65
15	10.27	10.30	10.86	10.90	11.35	11.40	11.48	11.52	11.59	11.64	11.65	11.67
16	10.25	10.31	10.87	10.91	11.34	11.40	11.52	11.56	11.60	11.64	11.67	11.68
17	10.24	10.30	10.91	10.95	11.37	11.42	11.47	11.55	11.61	11.64	11.67	11.69
18	10.24	10.32	10.87	10.95	11.39	11.43	11.41	11.48	11.63	11.64	11.67	11.69
19	10.27	10.33	10.90	10.95	11.40	11.44	11.48	11.52	11.62	11.66	11.62	11.68
20	10.30	10.35	10.92	10.97	11.37	11.45	11.51	11.55	11.62	11.65	11.65	11.68
21	10.33	10.36	10.95	10.99	11.38	11.40	11.53	11.57	11.64	11.65	11.68	11.69
22	10.32	10.38	10.95	11.00	11.41	11.45	11.54	11.58	11.62	11.66	11.63	11.69
23	10.37	10.40	10.97	11.01	11.37	11.45	11.56	11.59	11.62	11.66	11.67	11.70
24	10.39	10.42	11.01	11.02	11.39	11.43	11.48	11.59	11.63	11.67	11.66	11.67
25	10.40	10.45	11.02	11.05	11.40	11.45	11.43	11.48	11.65	11.66	11.67	11.68
26	10.45	10.50	11.05	11.07	11.41	11.45	11.45	11.54	11.64	11.67	11.65	11.69
27	10.50	10.55	11.04	11.09	11.43	11.47	11.53	11.59	11.64	11.67	11.57	11.65
28	10.55	10.60	11.05	11.10	11.42	11.48	11.53	11.61	11.64	11.66	11.62	11.68
29	10.60	10.64	11.02	11.10	11.40	11.49	11.49	11.53	11.63	11.68	11.68	11.78
30	10.64	10.66	11.10	11.13	11.37	11.46	11.53	11.59	11.62	11.64	11.77	11.80
31	10.63	10.67	11.13	11.16			11.52	11.58			11.80	11.82

AA-Ad 30 --Continued.

(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	8.55	Feb. 3	8.54	May 27	9.15	Sept. 30	11.37
19	8.76	17	8.47	June 15	9.62	Oct. 27	11.55
27	8.86	Mar. 8	8.59	July 28	10.57	Nov. 30	11.62
28	8.78	Apr. 12	8.31	Aug. 31	11.16	Dec. 29	11.74

AA-Ae 4. U. S. Coast Guard Yard. Lat.  $39^{\circ}11'59''$ , long.  $76^{\circ}34'10''$ . On Arundel Cove. Used drilled well, diameter 12 to 8 inches, depth 195 feet. Records available: 1946-48. No measurements made in 1949.

AA-Bb 17. Annapolis Junction school. Lat.  $39^{\circ}07'19''$ , long.  $76^{\circ}47'31''$ . At Fort George G. Meade Junction. Unused drilled well, diameter 6 inches, depth 46 feet. Records available: 1946-47. No measurement made in 1948-49.

AA-Bb 18. William J. Harris. Lat.  $39^{\circ}07'26''$ , long.  $76^{\circ}47'25''$ . Unused drilled domestic well, diameter 6 to 4 inches, depth 108 feet. Records available: 1946-49.

Jan. 12	22.72	Mar. 17	18.92	July 28	20.27	Nov. 15	22.38
Feb. 3	19.20	May 27	18.81	Aug. 16	13.27	Dec. 30	23.23
16	19.18	June 15	19.35	Sept. 30	21.64		

AA-Be 13. R. LeMoine. Lat.  $39^{\circ}09'22''$ , long.  $76^{\circ}30'56''$ . At Riviera Beach. Used drilled domestic well, diameter 4 inches, depth 231.6 feet. Records available: 1946-48. No measurement made in 1949.

AA-Be 29. Wolfe's Tavern. Lat.  $39^{\circ}07'58''$ , long.  $76^{\circ}34'92''$ . At Lipins Corner. Unused drilled domestic well, diameter 4 inches, depth 52.7 feet. Records available: 1946-47. No measurements made in 1948-49.

AA-Be 40. Harold E. West. Lat.  $39^{\circ}05'43''$ , long.  $76^{\circ}32'12''$ . Unused drilled well, diameter 4 inches, depth 140 feet. Records available: 1946-47. No measurement made in 1948-49.

AA-Be 54. R. LeMoine. Lat.  $39^{\circ}09'22''$ , long.  $76^{\circ}30'56''$ . At Riviera Beach. Unused dug domestic well, diameter 36 inches, depth 15.5 feet. Records available: 1946-49. No measurement made in 1949.

AA-Be 59. State of Maryland. At Riviera Beach, on shore of Stony Creek, about 50 feet south of northwest end of Stony Creek bridge. Unused drilled well, diameter 2 inches, depth 90 feet. Records available: 1949.

July 11	0.46	Aug. 15	0.30	Nov. 8	0.04	Nov. 15	+0.11
28	.14	Oct. 11	.61	8	.12	Dec. 29	.11

No measurements made in 1949 for wells AA-Cc 1, AA-Cc 2, and AA-Cd 8.

AA-Cd 10. Crownsville State Hospital. At Crownsville, about 500 feet west of large water tower. Unused drilled public-supply well, diameter 8 to 6 inches, reported depth 668 feet. Records available: 1949.

Mar. 3	109.64	Apr. 14	111.24	July 28	119.28	Nov. 15	110.73
9	109.63	May 27	111.18	Aug. 31	114.12	Dec. 30	112.29
15	109.62	June 15	113.40	Oct. 11	110.36		

No measurements made in 1949 for wells AA-Cd 21, AA-Ce 24, AA-Ce 49, and AA-Cg 2.

AA-Df 14. U. S. Naval Academy well Rifle Range 1. Lat.  $38^{\circ}59'17''$ , long.  $76^{\circ}28'01''$ . Near Carrs Point. Unused drilled well, diameter 8 inches, depth 578 feet. Records available: 1946-49.

Jan. 12	68.43	Apr. 14	67.23	July 28	74.51	Nov. 15	71.82
Feb. 9	66.95	May 16	69.14	Aug. 15	72.04	Dec. 29	67.84
Mar. 17	68.17	June 20	68.52	Oct. 11	69.89		

No measurements made in 1949 for wells AA-Df 17, AA-Df 18, and AA-Ee 14.

AA-Ef 3. C. L. Meredith. Lat. 38°54'59", long. 76°27'39". At Arundel on the Bay, near Annapolis. Unused drilled domestic well, diameter 1.5 inches, depth 61 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	5.96	May 16	6.11	July 28	6.60	Oct. 11	6.60
Feb. 9	5.68	27	5.87	Aug. 15	6.03	Nov. 15	6.33
Mar. 17	6.19	June 15	5.94	Sept. 30	7.02	Dec. 29	7.01
Apr. 14	6.36	20	6.24				

### Baltimore County

Bal-Cb 2. H. F. Schaefer. 1.5 miles northeast of Woodensburg, on northeast side of abandoned log house near Piney Grove Church. Abandoned domestic well, reported depth 60 feet. Records available: 1949.

Feb. 4	34.26	Apr. 12	35.62	July 11	38.78	Oct. 24	41.61
10	34.47	May 26	37.17	Aug. 19	40.38	Nov. 9	41.79
Mar. 17	34.84	June 10	37.54	Sept. 22	40.58	Dec. 14	43.27

Bal-Dd 1. A. D. Jones. 1.25 miles southeast of Warren, on Bolsey Rd., near northeast corner of old house foundation. Unused drilled domestic well, diameter 8 inches, depth 24 feet. Records available: 1949.  
Jan. 18, 10.17; Feb. 16, 9.09; Mar. 16, 9.98; Apr. 12, 10.20.

Bal-Ef 16. Water Hole. On King Avenue. Records available: 1944-49.

Jan. 21	4.14	May 18	3.99	Aug. 19	7.25	Nov. 28	6.83
Feb. 11	4.25	June 10	6.45	Sept. 21	7.90	Dec. 30	4.79
Apr. 12	4.25	July 29	7.33	Oct. 23	6.84		

Bal-Ef 19. United Clay Products Co. At Poplar. Records available: 1944-49.

Jan. 21	57.89	May 2	56.98	July 29	57.49	Oct. 28	57.43
Mar. 11	56.82	18	57.07	Aug. 19	57.02	Nov. 28	57.74
Apr. 12	57.17	June 10	57.41	Sept. 21	57.48	Dec. 30	57.80

Bal-Fe 19. Paul Jones distillery. At Dundalk. Records available: 1944-49.

### Daily high and low water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	89.20	92.78	89.82	92.35	87.81	89.69	89.66	90.12	85.07	88.90	88.45	88.90
2	85.92	89.20	92.35	93.42	89.67	90.31	87.28	89.66	84.47	86.78	88.49	89.22
3	85.80	88.01	93.08	93.85	90.15	90.62	83.98	87.28	86.78	89.25	89.12	89.32
4	88.01	90.07	92.48	93.08	90.37	90.73	83.91	86.70	89.19	89.27	87.57	89.17
5	89.98	90.56	90.36	92.49	88.75	90.37	86.70	88.87	89.16	89.47	87.02	87.57
6	90.32	91.71	86.26	90.36	84.99	88.75	88.87	90.58	89.29	90.13	87.09	88.04
7	91.64	93.03	86.97	87.12	84.82	87.95	90.53	92.74	87.57	90.45	88.04	88.90
8	89.62	92.24	87.05	88.23	87.95	89.59	92.74	94.00	83.39	87.57	88.90	90.12
9	86.50	89.62	88.14	88.59	89.56	89.93	89.65	93.57	82.81	85.22	90.00	90.28
10	86.23	88.84	88.59	89.64	89.75	90.44	86.00	89.65	85.22	87.71	90.18	90.49
11	88.84	91.66	89.39	90.16	90.12	90.79	85.36	88.71	87.71	90.09	88.80	90.18
12	91.64	92.89	86.67	87.12	84.82	87.95	88.71	92.10	90.09	91.22	88.22	88.80
13	92.77	93.39	83.16	86.67	85.63	89.80	92.10	92.85	90.23	91.35	88.16	88.92
14	93.31	94.19	83.03	86.03	85.63	87.35	92.85	93.88	86.80	90.23	88.92	89.67
15	89.76	93.31	86.03	88.59	87.85	89.80	93.77	94.24	85.00	86.80	89.67	90.51
16	85.77	89.76	88.59	89.50	89.62	89.90	89.75	93.77	84.42	85.71	90.19	90.99
17	85.64	88.84	89.26	90.98	89.90	90.67	85.70	89.75	85.71	86.85	90.92	91.17
18	88.84	91.44	90.83	91.40	89.98	90.63	84.95	88.17	86.85	87.92	88.20	90.92
19	91.44	92.69	88.25	91.14	88.81	89.98	88.17	91.22	87.92	88.51	86.35	88.20
20	92.59	93.80	84.42	88.25	84.78	88.81	91.22	93.23	88.03	88.70	85.93	87.34
21	92.68	93.58	84.04	85.80	84.40	86.87	93.23	94.04	87.38	88.80	87.34	88.85

## Bal-Fe 19--Continued.

Daily high and low water level, from recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
22	90.05	92.68	85.80	86.29	86.87	89.58	92.48	93.87	86.19	87.38	88.85	89.65
23	86.52	90.05	86.22	88.12	89.53	90.35	88.97	92.48	86.17	87.19	89.46	90.50
24	86.23	88.89	88.12	89.98	90.24	91.21	86.06	88.97	87.19	87.66	90.09	90.55
25	88.88	91.84	89.80	90.23	90.81	91.78	85.75	88.07	87.53	88.90	88.30	90.09
26	91.84	92.63	89.03	89.80	87.51	91.40	88.07	89.67	88.86	89.10	87.64	88.30
27	92.44	93.16	85.50	89.03	84.15	87.51	89.67	91.01	88.37	88.95	87.57	88.67
28	92.84	93.59	85.24	87.51	83.30	86.20	91.01	92.23	86.55	88.37	88.67	89.52
29	90.45	93.38			86.20	88.10	92.23	92.53	86.34	86.66	89.52	89.97
30	86.60	90.45			88.10	88.85	88.90	92.53	86.36	87.40	89.97	90.27
31	86.30	89.82			88.85	89.77			87.40	88.58		

Daily high and low water level, from recorder charts

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	90.03	90.37	80.05	82.25	87.48	87.81	86.81	88.42	83.03	83.91	86.28	86.60
2	88.14	90.37	82.25	84.37	85.88	87.52	83.82	86.81	83.91	84.89	86.46	86.76
3	86.90	88.14	84.37	85.50	83.85	85.88	83.05	84.46	84.60	85.15	86.67	87.07
4	86.75	87.34	85.50	86.34	81.48	83.85	84.46	85.53	85.06	86.50	86.57	87.08
5	87.34	88.11	86.34	87.45	79.51	81.48	85.53	86.03	84.45	86.48	86.35	86.72
6	88.11	88.70	85.72	87.45	78.95	80.54	86.02	86.47	82.88	84.45	86.59	86.82
7	88.70	89.25	84.03	85.72	80.54	83.36	86.46	87.54	82.21	84.00	86.68	86.91
8	89.25	89.57	83.74	85.30	83.36	85.35	85.48	87.56	84.00	87.01	86.91	87.17
9	86.82	89.40	85.30	86.69	85.32	85.93	83.21	85.48	87.01	88.39	87.08	87.81
10	85.60	86.82	86.69	87.72	85.23	85.93	82.72	83.92	88.23	88.43	85.79	87.81
11	86.49	86.75	87.72	88.21	85.17	85.36	83.92	85.29	88.25	88.77	84.28	85.79
12	86.75	87.74	88.14	88.54	85.36	86.97	85.26	85.65	87.22	88.72	84.34	85.28
13	87.52	87.67	85.96	88.40	86.97	88.44	85.65	86.29	84.76	87.22	85.23	86.00
14	87.67	88.38	83.59	85.96	87.93	88.54	86.29	86.76	84.56	85.60	85.91	86.60
15	88.36	88.54	83.28	84.94	88.54	89.84	84.95	86.72	85.60	86.17	86.56	87.01
16	95.99	88.36	84.94	86.62	89.84	90.63	82.94	84.95	85.06	85.94	86.68	87.11
17	83.34	85.99	86.62	87.38	87.43	90.52	82.41	83.56	84.89	85.64	85.16	87.05
18	82.21	83.34	87.38	88.23	84.47	87.43	83.56	85.13	85.64	87.02	83.42	85.16
19	81.79	82.24	87.82	88.22	83.98	85.96	85.13	85.84	85.22	87.01	83.34	84.85
20	81.41	81.79	87.67	88.27	85.96	88.36	85.66	86.90	83.75	85.22	84.85	85.77
21	81.74	82.32	86.92	87.67	88.36	89.80	86.22	86.61	83.73	85.77	85.77	86.14
22	82.17	82.37	86.82	87.14	88.78	89.66	84.62	86.53	85.77	87.15	86.14	86.45
23	81.52	82.19	86.99	87.29	88.17	88.78	82.61	84.62	86.96	87.23	86.42	86.97
24	86.06	81.52	87.29	87.88	86.37	88.37	82.17	83.57	85.60	87.27	85.66	86.89
25	80.64	81.06	87.86	88.20	84.36	86.37	83.57	84.51	84.86	86.76	84.21	85.66
26	80.77	81.10	88.16	88.42	83.88	84.98	84.45	85.28	84.65	86.76	83.04	84.21
27	80.93	81.67	87.86	88.31	84.98	86.15	85.15	85.78	83.55	84.65	82.96	84.37
28	81.67	81.89	87.73	87.91	86.15	86.97	85.70	86.40	83.35	85.35	84.37	85.41
29	81.85	82.28	87.61	87.73	86.91	87.95	84.56	86.22	85.35	87.01	85.40	86.03
30	80.82	82.05	87.65	88.02	87.77	88.42	82.44	84.56	86.36	86.79	86.03	86.87
31	80.06	80.82	87.82	88.08			81.80	83.03			86.36	86.74

(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	90.51	May 18	87.40	Aug. 2	83.69	Oct. 28	85.82
Feb. 2	93.28	June 7	88.19	30	87.75	Nov. 28	83.74
Mar. 14	86.70	July 29	81.92	Sept. 21	89.31	Dec. 30	86.51
Apr. 12	91.10						

Bal-Ef 1. City of Baltimore. At Back River Sewage Disposal Plant. Records available: 1943-49.

Jan. 21	45.23	May 18	42.90	Aug. 19	44.79	Nov. 28	46.17
Mar. 11	42.67	June 10	42.52	Sept. 21	42.69	Dec. 30	47.29
Apr. 12	45.70	July 29	45.43	Oct. 28	42.81		

Bal-Gc 20. Calvert Distillery. At St. Denis. Records available: 1944-47. No measurements made in 1948-49.

Bal-Gf 1. Bethlehem Steel Co. At Sparrows Point. Records available: 1943-49. Sept. 21, 49.40.

No measurements made in 1949 for the following wells: Bal-Gf 3, and Bal-Gf 4.

Bal-Gf 6. Bethlehem Steel Co. At Sparrows Point. Records available: 1943-46, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	111.77	May 18	104.24	Aug. 30	115.90	Oct. 28	71.13
Mar. 11	100.24	June 23	109.91	Sept. 21	108.77	Nov. 28	107.82
Apr. 12	108.27	July 29	105.78				

No measurements made in 1949 for the following wells: Bal-Gf 8, Bal-Gf 9, Bal-Gf 10, Bal-Gf 12, Bal-Gf 14, Bal-Gf 16, Bal-Gf 18, Bal-Gf 28, Bal-Gf 29, Bal-Gf 30, Bal-Gf 31, Bal-Gf 32, Bal-Gf 33, Bal-Gf 34, Bal-Gf 36, Bal-Gf 37, Bal-Gf 38, Bal-Gf 46, Bal-Gf 47, and Bal-Gf 48.

Bal-Gf 50. Bethlehem Steel Co. At Sparrows Point. Records available: 1943-49.

Feb. 2	53.24	May 18	61.51	Aug. 30	66.78	Nov. 28	44.95
Mar. 11	51.42	June 23	68.04	Sept. 21	66.94	Dec. 30	59.40
Apr. 12	50.20	July 29	69.33	Oct. 28	33.43		

Bal-Gf 51. Bethlehem Steel Co. At Sparrows Point. Records available: 1943-49.

Feb. 2	85.31	May 18	83.93	Aug. 30	83.92	Nov. 28	84.65
Mar. 11	81.72	June 23	84.46	Sept. 21	83.70	Dec. 30	84.29
Apr. 12	81.20	July 29	81.37	Oct. 28	63.05		

No measurements made in 1949 for the following wells: Bal-Gf 52, Bal-Gf 53, and Bal-Gf 78.

Bal-Gf 79. Bethlehem Steel Co. At Sparrows Point. Records available: 1943-49. Feb. 2, 33.40; Mar. 11, 33.87; Apr. 12, 32.65.

No measurements made in 1949 for the following wells: Bal-Gf 89, Bal-Gf 93, Bal-Gf 100, Bal-Gf 107, Bal-Gf 108, Bal-Gf 131, Bal-Gf 136, Bal-Gf 138, Bal-Gf 139, Bal-Gf 140, Bal-Gf 165, Bal-Gf 166, and Bal-Gf 167.

Bal-Gf 168. Bethlehem Steel Co. At Sparrows Point. Records available: 1943-49.

Feb. 2	56.80	May 18	67.58	Aug. 30	81.00	Nov. 28	53.14
Mar. 11	54.63	June 23	75.00	Oct. 28	48.83	Dec. 30	53.10
Apr. 12	49.40	July 29	91.24				

Bal-Gf 169. Bethlehem Steel Co. At Sparrows Point. Records available: 1943-49.

Feb. 2	24.52	May 18	44.80	Aug. 30	55.26	Nov. 28	31.45
Mar. 11	34.22	June 23	52.84	Sept. 21	53.78	Dec. 30	28.43
Apr. 12	31.73	July 29	59.45	Oct. 28	25.39		

No measurements made in 1949 for the following wells: Bal-Gf 170, Bal-Gf 171, Bal-Gf 172, Bal-Gf 173, Bal-Gf 174, Bal-Gf 175, and Bal-Gf 176.

Bal-Gf 177. Bay Shore Park. Lat. 39°12'30", long. 76°25'30". Records available: 1943-49.

Jan. 21	45.86	May 18	42.85	Aug. 30	44.22	Nov. 28	43.82
Mar. 11	44.95	July 29	42.92	Oct. 28	36.89	Dec. 30	45.48
Apr. 12	44.10						

Bal-Gf 178. Bay Shore Park. Drilled well, diameter 8 inches, depth 339 feet. Records available: 1947-49.



## Bal-Gf 178--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	17.90	Apr. 12	17.72	July 23	24.55	Nov. 28	15.96
Mar. 11	18.00	May 18	19.61	July 29	25.85	Dec. 30	17.77

Bal-Gf 183. Chesapeake Terrace School. Lodge Forest. Records available: 1944-49.

Jan. 21	33.35	May 18	32.86	Aug. 30	45.09	Nov. 28	29.12
Mar. 11	30.32	June 23	41.62	Sept. 21	43.69	Dec. 30	29.09
Apr. 12	30.59	July 29	44.34	Oct. 29	30.33		

No measurements made in 1949 for the following wells: Bal-Gf 191, Bal-Gf 192, Bal-Gf 200, Bal-Gf 201, and Bal-Gf 202.

Calvert County

Cal-Rb 1. Gorman Lyons. In Dunkirk. Dug domestic well, diameter 48 inches, depth 43.5 feet. Records available: 1947-49.

Mar. 24	18.25	May 19	23.05	Aug. 3	30.72	Nov. 30	33.20
24	18.18	June 15	26.79	Sept. 14	31.26	Dec. 28	31.51
Apr. 15	19.91	July 29	33.71	Oct. 3	31.48		

Cal-Cb 4. J. Armiger. 1.2 miles south of Huntingtown, about 300 feet east of Route 2, behind farmhouse. Dug domestic well, diameter 3 feet, depth 33 feet. Wooden well box 2.8 feet high. Records available: 1949.

Apr. 6	18.87	July 21	20.25	Sept. 14	21.40	Nov. 30	20.81
June 28	19.78	Aug. 3	20.04	Oct. 3	20.30	Dec. 28	20.82

Cal-Dc 6. Frank Mister. Records available: 1947. No measurements made in 1948-49.

Cal-Dc 18. A. Goldstein. In Prince Frederick. Records available: 1947-49.

Mar. 22	18.84	May 19	19.14	Aug. 3	18.96	Nov. 30	19.64
24	18.83	June 28	19.05	Sept. 14	19.42	Dec. 28	19.81
Apr. 15	18.94	July 21	19.02	Oct. 3	19.38		

Cal-Ec 4. W. W. Ross. Records available: 1947-49.

Mar. 22	40.09	May 19	40.50	Aug. 3	41.00	Oct. 3	43.05
24	40.79	June 16	41.24	Sept. 14	46.05	Dec. 28	44.75
Apr. 15	41.15	July 21	42.19				

Cal-Ec 5. Benjamin Parran. Records available: 1947-49.

Mar. 22	24.31	May 19	25.05	Aug. 3	25.02	Nov. 30	27.13
24	24.51	June 16	25.65	Sept. 4	25.79	Dec. 28	28.30
Apr. 15	24.49	July 21	25.20	Oct. 3	25.99		

Cal-Fd 12. Ambassador Neilson. Records available: 1947. No measurements made in 1948-49.

Cal-Fd 14. W. B. Glascock. Abandoned drilled well, diameter 1.5 inches, depth about 455 feet. Records available: 1947-49.

Mar. 22	7.35	June 28	7.36	Sept. 14	7.72	Nov. 30	7.09
Apr. 15	7.03	July 21	7.65	Oct. 3	7.54	Dec. 28	6.37
May 19	7.40	Aug. 3	7.69				

Cal-Gd 4. U. S. Navy Amphibious Training Base. Unused drilled well, diameter 8 inches, depth 248 feet. Records available: 1947-49.

Mar. 22	29.35	May 20	32.70	July 21	30.92	Sept. 14	33.78
Apr. 15	30.54	June 28	32.35	Aug. 3	29.67		

Cal-Gd 5. U. S. Navy. Occupied by Tidewater Fisheries Commission. 0.5 mile north of Solomons, east of Back Creek, at southern terminus of Route 504, about 0.1 mile south-southwest of sentry gate; "Well House No. 1." Abandoned drilled public-supply well, diameter 8 inches, depth 248 feet. Records available: 1949. Oct. 14, 20.97; Oct. 19, 20.74; Nov. 29, 20.42; Dec. 28, 20.05 (tape measurements).

High and low daily water levels, from recorder charts

Day	October		November		December	
	High	Low	High	Low	High	Low
1	.....	.....	20.80	21.23	20.53	21.00
2	.....	.....	20.35	21.10	20.42	20.95
3	.....	.....	20.16	20.69	20.95	21.37
4	.....	.....	20.63	21.10	20.48	21.12
5	.....	.....	20.72	21.21	20.41	20.82
6	.....	.....	21.11	21.47	20.62	20.99
7	.....	.....	20.62	21.05	20.50	20.98
8	.....	.....	20.70	21.07	20.79	21.18
9	.....	.....	20.87	21.28	20.79	21.20
10	.....	.....	20.72	21.28	20.88	21.21
11	.....	.....	20.70	21.04	20.70	21.12
12	.....	.....	20.88	21.17	20.55	20.95
13	.....	.....	20.30	21.03	20.61	21.05
14	20.61	20.97	20.33	20.75	20.84	21.28
15	20.59	20.87	20.54	20.85	20.69	21.07
16	20.44	20.80	20.53	20.89	20.65	20.97
17	20.29	20.55	20.23	20.84	20.61	21.06
18	20.47	20.93	20.55	21.07	20.51	21.05
19	20.50	21.06	20.97	21.37	20.51	20.98
20	20.38	20.79	20.87	21.37	20.52	21.09
21	20.31	20.90	20.94	21.48	20.05	20.72
22	20.30	20.86	21.24	21.66	19.92	20.37
23	20.58	21.07	20.68	21.61	19.94	20.55
24	20.57	21.11	21.00	21.44	20.19	20.60
25	20.49	21.10	20.75	21.12	19.95	20.36
26	20.47	21.09	21.02	21.45	19.48	20.07
27	20.94	21.30	20.54	21.10	19.45	19.75
28	20.91	21.17	20.61	20.96	19.65	20.08
29	20.94	21.24	20.42	20.77	19.78	20.14
30	20.70	21.16	20.36	20.69	20.14	20.37
31	20.40	20.83			19.72	20.30

Cal-Gd 6. U. S. Navy. Tidewater Fisheries Commission. 0.5 mile north of Solomons, east of Back Creek, at southern terminus of Route 504, about 0.25 mile south-southeast of sentry gate; "Well House No. 3." Abandoned drilled public-supply well, diameter 8 inches, depth 493 feet. Records available: 1949. Oct. 13, 28.50; Oct. 19, 28.01; Nov. 29, 27.52; Dec. 28, 27.88 (tape measurements).

High and low daily water levels, from recorder charts

Day	October		November		December	
	High	Low	High	Low	High	Low
1	.....	.....	28.00	28.41	27.60	28.16
2	.....	.....	27.82	28.44	27.63	28.15
3	.....	.....	27.72	28.18	28.15	28.54
4	.....	.....	28.08	28.55	27.74	28.25
5	.....	.....	28.18	28.60	27.76	28.08
6	.....	.....	28.38	28.79	27.81	28.19
7	.....	.....	27.98	28.41	27.62	28.02
8	.....	.....	28.02	28.40	.....	.....
9	.....	.....	28.17	28.54	.....	.....
10	.....	.....	27.98	28.43	.....	.....
11	.....	.....	27.97	28.27	.....	.....
12	.....	.....	28.08	28.39	.....	.....
13	28.48	28.64	27.54	28.25	.....	.....
14	28.15	28.64	27.62	28.01	.....	.....
15	28.12	28.37	27.76	28.05	.....	.....
16	27.88	28.26	27.69	28.06	.....	.....
17	27.79	28.03	27.65	28.03	.....	.....
18	27.82	28.25	27.77	28.25	.....	.....

## Cal-Gd 6--Continued.

High and low daily water levels, from recorder charts

Date	October		November		December	
	High	Low	High	Low	High	Low
19	27.86	28.35	28.00	28.45	.....	.....
20	27.85	28.24	27.82	28.32	.....	.....
21	27.81	28.31	27.95	28.43	.....	.....
22	27.77	28.32	28.24	28.66	.....	.....
23	28.07	28.61	27.78	28.60	.....	.....
24	28.11	28.58	28.04	28.51	.....	.....
25	28.01	28.56	27.76	28.13	.....	.....
26	28.00	28.54	27.93	28.32	.....	.....
27	28.47	28.85	27.60	28.01	.....	.....
28	28.40	28.77	27.71	28.03	.....	.....
29	28.28	28.62	27.45	27.82	27.57	28.01
30	28.02	28.52	27.43	27.76	27.88	28.08
31	27.75	28.12			27.53	28.00

Cal-Gd 20. G. F. Beavan. In Solomons. Records available: 1947-48.  
No measurements made in 1949.

Cal-Gd 22. Standard Oil Co. of New Jersey. In Solomons. Unused drilled well, diameter 3 inches, depth about 320 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 24	17.65	June 28	17.26	Sept. 14	17.29	Nov. 30	15.02
Apr. 15	17.57	July 21	18.56	Oct. 3	16.02	Dec. 28	16.24
May 19	18.79	Aug. 3	17.58				

Carroll County

Car-Bb 1. Mrs. Joe Elliott. At Taneytown. Records available: 1946-49.

Jan. 6	1.25	Apr. 4	2.58	Aug. 1	2.43	Oct. 3	5.75
Feb. 8	1.80	May 2	2.87	12	3.69	Nov. 30	5.75
16	1.56	23	3.46	Sept. 7	5.28	Dec. 5	5.59
Mar. 4	2.42	June 6	5.72				

Car-Bf 1. Town of Hampstead well 1. At Hampstead. Records available: 1946-49.

Feb. 16	60.18	May 26	62.95	Sept. 22	68.50	Nov. 9	71.32
Mar. 16	60.33	July 11	66.07	Oct. 24	70.58	Dec. 14	76.03
Apr. 12	62.06	Aug. 19	67.50				

Car-Ce 2. Koontz Creamery. In Westminster. Records available: 1948-49. Jan. 17, 56.63; Mar. 4, 45.72; Mar. 16, 44.90.

Day	January		Day	January	
	High	Low		High	Low
1	59.54	61.56	9	52.15	58.33
2	56.02	60.52	10	52.64	58.31
3	55.02	60.37	11	53.07	59.52
4	55.08	58.50	12	53.41	58.42
5	54.42	60.16	13	52.85	58.51
6	.....	.....	14	52.36	57.50
7	53.06	57.37	15	52.46	58.54
8	52.32	58.29	16	53.77	59.28

Charles County

Ch-Bc 10. Mrs. Louise Brown. In Potomac Heights, on Route 224, 0.2 mile northeast of State Roads Commission garage. Dug domestic well. Records available: 1947, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 8	25.26	June 23	26.78	Sept. 20	29.59	Nov. 7	30.53
Apr. 19	25.89	July 18	27.72	Oct. 14	30.09	Dec. 20	31.12
May 20	25.74	Aug. 16	28.69				

Ch-Bd 5. James W. Clark. Dug domestic well. Records available: 1947. No measurements made in 1948-49.

Ch-Bf 2. Maryland State Police, Barracks "H". Records available: 1947, 1949.

Mar. 8	11.91	June 24	13.54	Sept. 20	15.40	Nov. 22	16.11
Apr. 13	11.79	July 15	14.02	Oct. 14	15.71	Dec. 20	16.47
May 19	12.85	Aug. 16	14.71				

Ch-Bf 22. U. S. Dept. of Justice. Dug domestic well. Records available: 1947. No measurement made in 1948-49.

Ch-Cg 1. Southern Maryland Electric Cooperative. In Hughesville. Drilled well, diameter 6 inches, depth 548 feet. Records available: 1947. No measurement made in 1948-49.

Ch-Cg 2. Lyons Department Store. Dug domestic well, diameter 36 inches, measured depth 11.76 feet. Records available: 1947. No measurement made in 1948-49.

Ch-Db 1. Mrs. M. C. Ward. In Nanjemoy. Dug domestic well. Records available: 1947. No measurement made in 1948-49.

Ch-Dc 2. Bernard C. Juhle. Records available: 1948-49.

Jan. 12	16.12	Apr. 17	16.56	Aug. 10	20.21	Nov. 23	19.42
Feb. 12	14.97	May 12	16.86	Sept. 12	20.01	Dec. 30	19.78
Mar. 12	15.77	June 6	17.19	Oct. 14	19.27		

Ch-Dd 6. Roy Greer. Dug domestic well. Records available: 1947, 1949.

Mar. 8	20.08	June 23	21.15	Sept. 20	21.57	Nov. 22	21.84
Apr. 13	20.18	July 18	21.17	Oct. 14	21.52	Dec. 20	21.94
May 19	20.57	Aug. 16	21.28				

Ch-Df 1. Simpson's Store. At Olivers Shop, on northeast corner of junction of Routes 6 and 232. Dug domestic well. Records available: 1947. No measurements made in 1948-49.

Ch-Ee 15. J. B. Bowling. 0.3 mile south of Wayside on north side of Route 3. Dug domestic well. Records available: 1947. No measurement made in 1948-49.

Ch-Ee 16. J. B. Bowling. Dug well, diameter 42 inches, measured depth 23.26 feet. Records available: 1947, 1949.

Mar. 8	12.99	June 23	14.52	Sept. 20	17.03	Nov. 22	17.28
Apr. 13	13.74	July 18	14.32	Oct. 14	16.54	Dec. 20	20.65
May 19	14.29	Aug. 16	13.20				

Ch-Ee 32. Joseph Wemble. Dug stock well, diameter 32 inches, measured depth 34.45 feet. Records available: 1947, 1949.

Date	Water level	Date	Water level	Date	Water level
Mar. 8	20.16	May 19	21.57	July 18	23.77
Apr. 13	20.47	June 23	21.72		

Ch-Ff 24. Joseph Holton. Dug domestic and stock well, diameter 32 inches, measured depth 14.77 feet. Records available: 1947, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 8	2.67	June 23	4.64	Sept. 20	6.76	Nov. 22	5.98
Apr. 13	1.92	July 18	5.68	Oct. 14	6.94	Dec. 20	5.76
May 19	2.97	Aug. 16	6.54				

### Frederick County

Fr-Bd 1. Town of Thurmont. Lat. 39°36'28", long. 77°25'42". At High Run. Unused drilled well, diameter 6 inches, depth unknown. Records available: 1946-49.

Jan. 7	7.61	Apr. 5	10.86	Aug. 2	10.35	Oct. 4	12.61
Feb. 9	8.85	May 2	9.88	12	11.81	Nov. 30	13.66
21	8.87	23	10.22	Sept. 9	13.14	Dec. 5	13.55
Mar. 5	9.83	July 6	12.61				

Fr-Cg 1. Jesse N. Nicodemus. Lat. 39°31'58", long. 77°13'56". At Johnsville. Used dug domestic well, diameter 36 inches, depth 43 feet. Records available: 1946-49.

Jan. 3	33.06	Mar. 21	36.10	May 30	37.25	Aug. 15	37.20
10	32.40	23	36.40	June 13	37.73	22	37.47
17	34.10	Apr. 4	36.70	20	37.87	29	37.73
24	34.92	11	36.75	27	38.04	Sept. 5	38.00
31	33.05	18	36.23	July 4	38.23	12	38.24
Feb. 7	33.47	25	36.54	11	38.40	17	38.35
14	33.95	May 2	36.60	18	35.25	26	38.56
21	34.05	9	36.70	25	35.42	Oct. 10	38.75
28	34.34	16	36.73	Aug. 1	36.15	17	38.90
Mar. 7	34.93	23	36.90	8	36.80	24	38.98
14	35.57						

Fr-Ee 1. Mrs. Roy Putnam. Lat. 39°24'10", long. 77°22'42". Used dug domestic well, diameter 43 inches, depth 58.1 feet. Records available: 1946-49.

Jan. 7	47.40	Apr. 5	43.20	July 7	46.10	Aug. 31	48.15
Feb. 9	42.60	May 2	43.97	11	46.67	Oct. 4	49.37
24	42.46	23	44.70	Aug. 3	47.14	Nov. 2	50.39
Mar. 6	42.10	June 1	44.90	11	47.52	Dec. 1	51.15

Fr-Fc 1. Montgomery Orrison. Lat. 39°16'40", Long. 77°31'18". Used dug domestic well, diameter 52 inches, depth 27.6 feet. Records available: 1946-49.

Jan. 10	6.00	May 6	8.80	Aug. 8	11.16	Oct. 9	19.15
Feb. 24	7.25	23	10.39	11	14.52	Dec. 1	22.23
Apr. 9	10.45	July 11	15.22	Sept. 20	18.00	14	21.86

Fr-Fd 3. Thomas & Co. Lat. 39°18'45", long. 77°28'24". At Adamstown. Unused drilled industrial well, diameter 6 inches, depth 73 feet. Records available: 1946-47. No measurement made in 1948-49.

### Garrett County

Gar-Ag 1. Town of Frostburg. Lat. 39°40'20", long. 78°58'59". Unused drilled well, diameter 8 inches, depth 30 feet. Records available: 1946-49.

Feb. 15	7.42	May 23	7.80	Aug. 12	7.85	Nov. 30	7.67
22	7.21	June 17	7.66	Sept. 3	7.91	Dec. 7	7.61
Mar. 5	7.47	July 8	7.85	Oct. 4	8.10	Jan. 19	5.71
May 4	7.76	Aug. 4	7.82	Nov. 2	7.88	Feb. 2	7.29

Gar-Bb 1. R. O. McCullough. Lat. 39°39'45", long. 79°24'16". Unused augered well, diameter 16 inches, depth 37 feet. Records available: 1946-49. Water level may be affected by surface water running into well.

## Gar-Bb 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	11.97	May 5	24.12	Sept. 10	24.90	Nov. 10	26.41
22	6.72	June 15	25.16	Oct. 5	26.90	Dec. 8	17.89
Mar. 5	9.62	July 8	24.88				

Gar-Bc 1. E. H. Ault. In Accident, 2 blocks east of U. S. Highway 219, about 0.1 mile southeast of small white church at north end of Accident. Dug domestic well, diameter 3 feet, depth 19.5 feet. Wooden well box, equipped with winch. Records available: 1949. Aug. 12, 15.82; Nov. 30, 13.83.

Gar-Db 7. City of Oakland well 2. Lat. 39°24'58", long. 79°24'38". Unused drilled well, diameter 6 inches, depth 67 feet. Records available: 1946-47. No measurement made in 1948-49.

Harford County

Har-Bb 1. Karl C. Ascherfeld. Lat. 39°36'22", long. 76°28'27". At Jarrettsville, 0.25 mile west of intersection of Highways 23 and 165. Used dug well, diameter 36 inches, depth 45 feet. Records available: 1946-47, 1949. Feb. 16, 30.90.

Har-Cc 8. Maryland Water Works Co. well Bynum 2. Lat. 39°33'59", long. 76°21'57". Records available: 1946-47, 1949.

Feb. 16	2.57	Aug. 19	2.40	Oct. 24	2.65	Nov. 23	2.50
June 10	2.36	Sept. 21	2.98	Nov. 9	2.27	30	2.20
July 14	2.01						

Har-Ed 24. U. S. Army. At Army Chemical Center, Edgewood. About 0.75 mile east of office of Post Engineer, on south side of Bush River Road at intersection of 29th St. Drilled public-supply well, diameter 18 inches, depth 149 feet. Square pumpbase 1.5 feet high, no pump. Records available: 1949. Sept. 30, 19.53.

Howard County

How-Bd 1. S. D. Slack. Lat. 39°18'10", long. 76°57'56". Used dug well, diameter 60 inches, depth 48 feet. Records available: 1946-49.

Feb. 11	39.90	June 3	33.97	Aug. 19	35.33	Nov. 4	38.46
Mar. 1	37.93	10	34.32	Sept. 23	36.30	Dec. 1	41.13
Apr. 8	36.55	July 11	35.28	Oct. 11	36.69	9	38.96
May 23	34.00	13	34.36	24	38.62		

How-Bd 2. Street. Records available: 1947. No measurement made in 1948-49.

How-Bf 1. Maryland Water Works Co. well Old 1. Lat. 39°16'50", long. 76°48'26". Unused drilled well, diameter 8 inches, depth 127.6 feet. Records available: 1946-47. No measurement made in 1948-49.

Montgomery County

Mont-Be 1. Mt. Lebanon Church. 1.75 miles east of Damascus, about 50 feet north of Highway 108, on west side of abandoned church. Unused drilled public-supply well, diameter 6 inches, depth 58 feet. Square pump support, 1 foot high. Records available: 1949.

Jan. 13	25.73	Apr. 14	25.42	July 11	34.30	Oct. 24	41.16
Feb. 16	25.91	May 26	29.05	Aug. 19	39.34	Nov. 8	41.64
Mar. 17	24.10	June 8	29.76	Sept. 23	38.87	Dec. 14	43.02
Apr. 1	25.29						

Mont-Cf 1. Village of Mt. Zion. At southwest corner of main intersection of Mt. Zion, on grounds of Mt. Zion Church. Dug public-supply well, diameter 3 feet, depth 25.5 feet. Wooden well box, 4 feet high, on stone base. Records available: 1949.

## Mont-Cf 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	9.25	Apr. 14	9.17	Aug. 19	11.82	Oct. 24	14.24
Feb. 16	8.91	June 8	9.21	Sept. 23	13.24	Dec. 14	13.68
Mar. 17	8.84	July 11	11.28				

Mont-De 1. J. D. Byrd. At Dawsonville, about 500 feet northwest of intersection of Highways 107 and 110, behind small white house. Drilled domestic well, diameter 6 inches, reported depth 110 feet. Records available: 1949.

Jan. 20	2.57	Apr. 14	3.18	July 11	14.73	Oct. 24	17.10
Feb. 16	2.42	May 26	4.66	Aug. 19	13.31	Nov. 9	16.39
Mar. 1	2.86	June 8	7.32	Sept. 23	14.96	Dec. 14	15.65

Mont-De 1. Washington Suburban Sanitary Commission. In Gaithersburg. Unused public supply well, diameter 6", depth 81', Records available: 1948-49.

## (From recorder charts)

Day	January		February		March		April	
	High	Low	High	Low	High	Low	High	Low
1	38.49	41.00	36.69	40.00	36.35	38.64	38.48	41.85
2	38.00	40.37	36.77	40.43	35.99	38.93	38.59	42.04
3	37.54	42.48	37.15	40.52	36.20	38.39	39.72	42.05
4	39.92	42.33	37.12	40.30	35.86	38.39	37.26	41.25
5	38.76	43.52	36.99	40.24	33.35	37.15	37.67	41.39
6	40.58	43.30	36.91	40.02	32.72	35.96	38.37	42.07
7	39.00	42.84	36.55	39.78	33.29	36.83	38.80	42.15
8	38.92	41.60	36.47	39.41	33.87	35.85	38.88	42.18
9	39.00	40.60	36.05	38.32	33.35	35.94	39.37	42.43
10	37.53	42.42	35.11	37.12	33.30	35.25	39.95	42.87
11	39.78	42.40	35.02	38.67	32.97	36.43	37.85	41.40
12	38.58	44.12	.....	.....	33.32	35.85	38.53	41.73
13	38.15	40.40	.....	.....	.....	.....	38.93	42.12
14	37.19	40.69	.....	.....	.....	.....	38.73	42.23
15	37.91	40.08	.....	.....	.....	.....	39.02	42.10
16	36.90	39.20	.....	.....	32.19	34.69	37.03	39.73
17	36.28	39.89	.....	.....	31.96	34.56	38.95	41.03
18	37.24	39.41	.....	.....	31.75	34.29	37.01	40.83
19	36.26	39.29	37.02	38.69	31.50	34.15	37.53	41.25
20	36.86	39.29	35.87	38.37	31.39	34.50	38.03	41.79
21	36.27	39.58	35.57	37.86	31.79	36.58	38.81	42.10
22	36.82	39.06	35.22	38.17	33.59	37.71	38.87	42.15
23	36.07	38.39	35.40	37.57	36.06	39.04	39.12	42.42
24	35.45	38.37	35.16	37.49	36.10	39.80	39.56	42.11
25	35.98	38.74	35.21	37.93	37.09	40.30	37.13	40.85
26	35.67	38.97	36.30	38.90	37.92	40.90	38.68	41.75
27	36.27	37.80	.....	.....	.....	.....	39.30	42.52
28	35.39	39.11	.....	.....	36.80	40.30	39.35	42.57
29	36.34	39.77	.....	.....	37.40	41.31	39.84	42.83
30	36.67	40.01	.....	.....	38.38	41.90	40.53	43.37
31	36.54	39.86	.....	.....	38.69	41.96	.....	.....

## (From recorder charts)

Day	May		June		July	
	High	Low	High	Low	High	Low
1	40.74	43.76	29.60	29.97	.....	.....
2	38.52	42.00	29.37	26.60	25.33	25.46
3	38.86	42.20	29.07	29.37	25.17	25.38
4	39.92	43.30	29.75	29.07	25.06	25.17
5	41.57	44.30	28.52	28.75	24.97	25.06
6	42.50	45.01	28.27	28.52	24.88	24.97
7	42.35	45.50	28.26	29.34	24.88	25.13
8	43.92	45.72	28.22	28.57	25.13	26.71
9	40.12	44.35	28.05	28.22	24.97	25.48
10	41.38	44.04	27.81	28.09	24.73	24.97
11	40.86	44.41	27.58	27.81	24.69	24.74

Mont-De 1--Continued.

(From recorder charts)

Day	May		June		July	
	High	Low	High	Low	High	Low
12	41.27	44.36	27.44	27.58	24.52	24.69
13	41.94	44.76	27.33	27.45	24.42	24.52
14	42.07	45.16	27.27	27.36	.....	.....
15	42.66	45.26	.....	.....	.....	.....
16	40.17	44.05	26.96	27.26	.....	.....
17	39.75	43.30	26.87	26.96	.....	.....
18	41.08	44.00	26.73	26.87	.....	.....
19	41.98	45.16	26.57	26.73	.....	.....
20	43.24	45.87	26.41	26.57	.....	.....
21	42.01	45.62	26.23	26.41	.....	.....
22	43.37	45.53	26.14	26.23	.....	.....
23	40.19	43.65	26.13	26.21	.....	.....
24	43.29	44.58	26.09	26.24	.....	.....
25	40.00	45.14	25.97	26.10	.....	.....
26	35.12	40.00	25.89	25.97	.....	.....
27	32.93	35.12	25.84	26.57	.....	.....
28	31.74	32.93	25.84	26.01	.....	.....
29	30.95	31.74	25.71	25.84	.....	.....
30	30.55	31.40	25.50	25.71	.....	.....
31	29.97	30.55			.....	.....

(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	41.35	Mar. 5	35.20	May 11	42.35	July 22	25.85
13	39.36	12	34.24	19	41.98	Aug. 10	22.60
20	39.00	15	34.03	27	33.80	22	22.07
26	38.27	23	36.06	June 2	29.40	Sept. 2	22.45
27	37.80	30	40.05	9	28.03	9	22.00
Feb. 3	38.94	Apr. 6	40.75	16	27.00	22	21.05
11	37.25	13	40.97	24	26.24	Oct. 4	20.58
19	37.85	20	40.53	July 1	25.46	11	20.38
26	37.46	27	41.30	8	25.74	Dec. 2	18.62
Mar. 1	36.35	May 4	41.75	13	24.42		

Mont-Ef 8. City of Rockville. In Rockville, about 0.5 mile southeast of junction of U. S. Highway 240 and State Highway 586, on north side of Baltimore & Ohio Railroad tracks. Unused drilled public-supply well, diameter 8 inches, depth 98.6 feet. Records available: 1949.

(From recorder charts)

Day	July		August		September	
	High	Low	High	Low	High	Low
1	.....	.....	24.37	24.43	26.53	26.74
2	.....	.....	24.43	24.52	.....	.....
3	.....	.....	24.52	24.62	26.90	26.91
4	.....	.....	24.62	24.69	26.86	26.90
5	.....	.....	24.68	24.76	26.86	26.88
6	.....	.....	24.76	24.81	.....	.....
7	.....	.....	24.79	24.80	27.15	27.16
8	.....	.....	24.80	24.85	27.14	27.21
9	.....	.....	24.85	24.97	27.21	27.36
10	.....	.....	24.97	25.10	27.35	27.50
11	.....	.....	25.10	25.17	27.50	27.55
12	.....	.....	25.17	25.32	.....	.....
13	24.20	24.23	25.30	25.37	.....	.....
14	24.21	24.26	25.37	25.45	27.60	27.65
15	24.23	24.26	25.45	25.58	27.65	27.69
16	24.22	24.26	25.58	25.65	.....	.....
17	24.14	24.22	.....	.....	.....	.....
18	24.12	24.19	.....	.....	.....	.....
19	24.05	24.12	25.69	25.81	.....	.....
20	24.05	24.07	.....	.....	27.95	28.03
21	.....	.....	.....	.....	28.03	28.09



## Mont-Ef 8--Continued.

Day	(From recorder charts)					
	July		August		September	
	High	Low	High	Low	High	Low
22	.....	.....	.....	.....	28.02	28.08
23	.....	.....	.....	.....	28.03	28.22
24	.....	.....	.....	.....	28.22	28.39
25	.....	.....	.....	.....	28.39	28.44
26	.....	.....	.....	.....	28.44	28.47
27	.....	.....	.....	.....	28.43	28.45
28	.....	.....	.....	.....	.....	.....
29	24.03	24.10	26.15	26.40	.....	.....
30	24.10	24.23	26.40	26.52	.....	.....
31	24.21	24.37	26.52	26.53	.....	.....

(Tape measurements)							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 13	24.21	Aug. 12	25.24	Aug. 29	26.15	Sept. 14	27.60
29	24.03	22	25.98	Sept. 7	27.16	20	27.95
Aug. 5	24.75						

Mont-Ef 9. City of Rockville. Lat. 39°04'50", long. 77°07'48". Unused drilled well, diameter 8 inches, depth 133.5 feet. Records available: 1946-47. No measurement made in 1948-49.

## Mont-Eg 1. Walter M. Brown. Records available: 1932-49.

(From recorder charts)												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	12.12	12.29	13.41	14.48	14.78	15.80	16.47	17.03	17.27	16.93	16.93
2	.....	12.26	12.46	13.53	14.51	14.85	15.82	.....	17.05	17.28	16.91	16.94
3	.....	12.34	12.56	13.58	14.50	14.91	15.83	.....	17.07	17.28	16.90	16.94
4	13.10	12.00	12.65	13.66	14.55	14.95	15.85	.....	17.08	17.28	16.89	16.95
5	12.67	11.60	12.66	13.72	14.58	14.98	15.89	.....	17.09	17.28	16.89	16.94
6	11.63	11.64	12.73	13.46	14.60	15.02	15.91	.....	17.10	17.28	16.89	16.93
7	11.79	11.49	12.91	13.50	14.62	15.07	15.95	.....	17.12	17.29	16.88	16.92
8	11.97	11.49	13.00	13.54	14.68	15.13	15.99	.....	17.14	17.29	16.87	16.92
9	12.10	11.55	13.04	13.63	14.71	15.18	16.02	.....	17.16	17.30	16.87	16.94
10	12.22	11.69	13.09	13.72	14.74	15.21	16.03	.....	17.18	17.30	16.87	16.95
11	12.30	11.94	13.14	13.76	14.79	15.24	16.06	.....	17.20	17.30	16.87	16.95
12	12.34	12.07	13.25	13.79	14.82	15.27	16.06	.....	17.22	17.30	16.87	16.95
13	12.43	12.09	13.34	13.79	14.85	15.31	16.02	.....	17.22	17.30	16.87	16.80
14	12.53	12.19	13.42	13.82	14.88	15.35	16.04	.....	17.22	17.30	16.87	16.72
15	12.73	12.25	13.46	13.87	14.90	15.39	16.05	.....	17.23	17.30	16.87	16.71
16	12.80	12.32	13.56	13.93	14.84	15.42	16.08	.....	17.23	17.30	16.87	16.71
17	12.87	12.18	13.60	14.00	14.88	15.43	16.10	.....	17.24	17.30	16.87	16.70
18	13.02	12.27	13.51	14.03	14.92	15.43	16.11	.....	17.24	17.30	16.87	16.69
19	13.07	12.27	13.57	14.06	14.94	15.42	16.13	.....	17.23	17.30	16.88	16.63
20	13.23	12.15	13.66	14.11	14.95	15.46	16.15	.....	17.23	17.30	16.88	16.62
21	13.26	12.28	13.70	14.15	15.01	15.48	16.17	.....	17.25	17.30	16.88	16.61
22	12.51	12.24	13.71	14.16	15.00	15.50	16.19	.....	17.25	17.29	16.91	16.62
23	12.61	11.99	13.20	14.16	14.75	15.55	16.22	.....	17.24	17.29	16.91	16.58
24	11.47	12.02	13.18	14.20	14.68	15.58	16.25	.....	17.25	17.30	16.91	16.56
25	12.45	12.01	13.20	14.29	14.57	15.61	16.27	.....	17.27	17.31	16.91	16.56
26	12.42	12.15	13.21	14.30	14.57	15.63	16.29	.....	17.27	17.29	16.92	16.53
27	12.29	12.25	13.19	14.32	14.59	15.67	16.32	.....	17.28	17.29	16.93	16.47
28	11.67	12.21	13.25	14.33	14.62	15.70	16.35	.....	17.27	17.28	16.94	16.44
29	11.78		13.35	14.43	14.67	15.73	16.33	.....	17.26	17.14	16.93	16.44
30	12.00		13.37	14.45	14.71	15.76	16.41	17.00	17.25	17.11	16.92	16.43
31	12.00		13.38		14.75		16.43	17.02		16.95		16.43

(Tape measurements)							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	13.10	Apr. 4	13.65	July 1	15.78	Oct. 3	17.23
Feb. 1	12.13	May 2	14.30	Aug. 1	16.50	31	16.96
28	12.21	31	14.75	30	17.00	Nov. 30	17.53

Prince Georges County

PG-Ad 8. Francis Gosnell. In Laurel, at 605½ Main Street. Unused dug domestic well, diameter 4 feet, depth 35.2 feet. Manhole cover over well, flush with sidewalk. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	11.59	May 4	13.85	Aug. 11	15.63	Nov. 13	15.47
Mar. 3	12.14	June 7	13.67	Sept. 12	16.18	Dec. 15	15.92
Apr. 7	12.60	July 5	14.55	Oct. 20	16.60	23	15.29

PG-Bd 17. Beltsville Research Center. Half a mile east of entrance to Beltsville Research Center, about 300 feet south of the East-West Highway, at dairy experiment station. Unused drilled industrial and public-supply well, diameter 8 inches, depth 233 feet. Concrete well house by brick smokestack. Records available: 1949

Date	Water level	Date	Water level	Date	Water level
Dec. 22, 1948	22.20	June 15	22.78	Sept. 16	23.91
Apr. 20, 1949	22.47	July 25	22.80	Oct. 20	23.57
May 25	22.37	Aug. 16	23.46	Dec. 28	22.50
June 7	23.09				

PG-Cc 3. Southern Oxygen Co., Inc. 0.5 mile south of Bladensburg. Abandoned drilled industrial well, diameter 8 inches, depth 162 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	9.09	Mar. 4	8.76	June 7	8.45	Sept. 16	9.76
17	9.13	Apr. 19	8.60	July 14	9.17	Oct. 21	9.65
25	9.12	May 4	8.61	Aug. 16	9.92	Dec. 28	8.86
Feb. 8	8.85						

PG-Dc 1. C. L. Jenkins & Sons. 0.5 mile northwest of Suitland. Abandoned drilled industrial well, diameter 6 inches, depth 365 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	200.12	Apr. 6	199.40	July 14	199.80	Oct. 20	200.05
25	200.27	May 20	199.85	Aug. 16	199.81	Dec. 28	200.23
Feb. 8	200.03	June 7	199.89	Sept. 16	200.06		

PG-Df 2. Dr. Bowie. On Route 301, 2.1 miles south of Central Avenue. Abandoned dug domestic well, diameter 4 feet, measured depth 81.5 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	73.40	Mar. 4	73.22	July 21	72.83	Oct. 19	72.25
17	73.24	Apr. 6	72.51	Aug. 2	72.57	Nov. 30	73.17
25	73.46	May 3	72.71	Sept. 13	72.80	Dec. 29	73.73
Feb. 8	73.13	June 28	72.72				

PG-Df 5. Charles F. Thorington. 0.3 mile west of Patuxent River at crossing of Highway 214 (Central Avenue extended), about 300 feet south of Route 214. Drilled domestic well, diameter 5 inches, depth 78 feet. Records available: 1949. Apr. 27, 4.38; Dec. 29, 5.23.

PG-Eb 2. Washington Suburban Sanitary Commission. In Forest Heights. Drilled public-supply auxiliary well, diameter 10 to 8 inches, depth 605 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	104.70	Mar. 4	107.36	Apr. 19	109.83	July 14	115.63
17	106.69	21	108.33	May 20	110.41	Aug. 16	126.22
25	105.02	28	109.88	June 7	110.87		

PG-Ec 10. Ralph E. Clark. 2 miles south-southwest of Oxon Hill, 0.2 mile east of intersection of Indian Head highway with Broad Creek, on west side of small shed. Unused drilled domestic well, diameter 6 inches, depth 252 feet. Records available: 1949. June 22, 30.90; Dec. 28, 31.50.

PG-Ef 1. Fairgrounds. In Upper Marlboro. Drilled industrial well, diameter 0.75 inch, depth 248 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+4.08	Mar. 4	+3.80	June 21	+4.20	Oct. 19	+3.10
17	4.03	23	4.36	July 21	3.70	Nov. 30	3.67
Feb. 8	3.67	Apr. 6	4.32	Sept. 8	3.16	Dec. 28	3.11

PG-Ef 2. Wyvill Esso Station. Abandoned dug well, diameter 3 feet, depth 50 feet. Records available: 1947-48. No measurement made in 1949.

PG-Fd 16. A. T. Robinson. 0.75 mile south of junction of U. S. Highway 301 and State Highway 5, about 500 feet east of highway, near white silo and southwest corner of large shed. Dug stock well, diameter 4 feet, reported depth 22 feet. Square cement well cover 1 foot high. Records available: 1949.

Apr. 6	8.50	June 21	12.14	Sept. 8	15.52	Nov. 30	16.95
20	9.67	July 14	13.56	Oct. 10	16.18	Dec. 28	17.64
May 3	9.92						

#### St. Marys County

St.M.-Bb 2. U. S. Navy railroad. In New Market. Unused dug well, diameter 4 feet, depth 10.9 feet. Records available: 1947, 1949.

Mar. 9	3.55	July 15	6.34	Sept. 16	7.46	Nov. 22	6.35
May 13	4.00	Aug. 4	6.91	27	6.91	Dec. 21	6.65
June 14	5.47	19	7.19	Oct. 14	6.90		

St.M.-Cb 2. S. S. Mattingly. Used drilled domestic well, diameter 1.5 inches. In Chaptico. Records available: 1947. No measurement made in 1948-49.

St.M.-Db 24. Clifton Downs. 0.25 mile southwest of junction of Highways 238 and 242, about 20 feet north of Highway 242, on east side of old building foundation. Unused dug domestic well, diameter 2.5 feet, depth 9.5 feet. Square cement well curbing, sheet-metal cover, hand pump. Records available: 1949.

July 15	6.45	Aug. 18	7.03	Sept. 22	7.59	Nov. 22	5.26
Aug. 3	6.84	Sept. 9	7.21	Oct. 14	8.33	Dec. 20	4.67

St.M.-Df 8. U. S. Navy. On grounds of Patuxent Naval Air Test Center near Lexington Park. About 1.75 miles north-northeast of main gate, 0.5 mile north-northwest of Diesel Power Station, in rectangular concrete pit. Unused drilled public-supply well, diameter 4 inches, depth 282 feet. Records available: 1949.

Aug. 10	74.21	Aug. 25	73.47	Sept. 13	71.24	Sept. 27	68.23
17	75.35	Sept. 6	69.25	21	71.23		

St.M.-Df 23. C. S. Piggott. Used drilled domestic well, diameter 6 inches, depth 260 feet. Records available: 1947, 1949.

July 15	34.84	Aug. 19	35.76	Sept. 26	33.76	Nov. 22	33.17
27	35.39	Sept. 9	34.25	Oct. 14	33.31	Dec. 21	33.86

St.M.-Df 24. Frank Borley. Used drilled domestic well, diameter 1.5 inches, depth 280 feet. Records available: 1947, 1949.

Date	Water level	Date	Water level	Date	Water level
Sept. 9	5.02	Oct. 14	4.84	Dec. 21	4.43
27	5.00	Nov. 22	4.29		

St.M.-Df 26. Thomas K. Clark. Used dug domestic well, diameter 48-36 inches, depth 58 feet. Records available: 1947, 1949.

## St.M.-Df 26--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	51.17	June 6	50.57	Aug. 19	50.99	Oct. 14	51.55
Apr. 13	50.86	July 15	50.95	Sept. 10	51.40	Nov. 22	51.67
May 13	50.70	Aug. 4	50.89	28	51.23	Dec. 21	52.02

St.M.-Ee 23. State of Maryland. Just southeast of bridge at intersection of Highway 244 and Poplar Hill Creek, about 40 feet south of highway. Dug forest-fire protection well, diameter 3 feet, depth 7.8 feet. Round, wooden well cover, concrete casing, no pump. Records available: 1949.

July 1	2.48	Aug. 3	2.30	Sept. 10	2.70	Nov. 22	2.55
15	2.29	26	2.60	26	2.85	Dec. 21	2.96
26	2.40						

St.M.-Ee 24. State of Maryland. Just east of community of Chingville and about 0.25 mile west of junction of Highway 5 with road to Valley Lee, about 10 feet south of Highway 5 and 6 feet east of small creek. Dug forest-fire protection well, diameter 3 feet, depth 6.4 feet. Round, wooden well cover, concrete casing, no pump. Records available: 1949.

July 1	1.93	Aug. 18	2.55	Sept. 28	3.80	Nov. 22	2.48
14	2.11	Sept. 10	2.35	Oct. 14	3.73	Dec. 21	2.43
Aug. 3	1.74						

St.M.-Ef 27. J. A. Coad. In Portobello, on shore of St. Marys River, about 100 feet east of owner's residence. Unused drilled domestic well, diameter 1.5 inches, depth 438 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level
Sept. 9	7.72	Oct. 14	7.70	Dec. 21	7.16
21	7.64	Nov. 22	7.60		

St.M.-Eg 3. Mrs. J. W. Elms. Used drilled domestic well, diameter 1.5 inches, depth 339 feet. Records available: 1947, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	13.62	May 13	14.07	Sept. 25	14.63	Nov. 23	14.45
Apr. 13	13.66	Sept. 10	14.53	Oct. 14	14.42	Dec. 21	14.36

St.M.-Ff 2. Albert Senior. On St. George Island, near Deep Point. Abandoned drilled well, diameter 1.5 inches, depth 234 feet. Records available: 1947. No measurement made in 1948-49.

St.M.-Fg 4. John A. Bradburn. Used drilled domestic well, diameter 1.5 inches, depth 420 feet. Records available: 1947, 1949.

Mar. 9	10.69	June 17	9.10	Aug. 11	9.24	Nov. 22	9.39
Apr. 13	8.27	July 15	9.01	Sept. 26	9.45	Dec. 21	9.25
May 13	8.87	Aug. 3	9.50	Oct. 14	10.53		

St.M.-Fg 19. H. P. Trossbach. 1 mile east of Ridge, on Airedale peninsula, about 100 feet on west side of main road, about 30 feet south of large red barn. Drilled domestic well, diameter 1.5 inches, depth 420 feet. Records available: 1949.

June 17	4.08	Aug. 17	3.14	Sept. 26	3.65	Nov. 22	3.29
July 15	3.18	Sept. 7	3.36	Oct. 14	3.39	Dec. 21	3.10
Aug. 3	3.19						

Washington County

Wa-Ac 1. Susan Creager. At Hancock. Lat. 39°41'59", long. 78°10'31". Unused drilled well, diameter 4 inches, depth 86.2 feet. Records available: 1946-49.

## Wa-Ac 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	50.69	Apr. 6	52.10	June 1	52.96	Aug. 11	53.82
22	49.32	May 3	53.04	July 8	52.60	Sept. 11	53.68
Mar. 6	51.50	23	52.30	Aug. 4	53.53	Nov. 30	52.38

Wa-Be 1. A. L. Dayhoff. At Indian Springs. Lat. 39°38'42", long. 78°00'29". Used dug well, diameter 36 inches, depth 37.5 feet. Records available: 1946-47. No measurement made in 1948-49.

Wa-Bf 1. State of Maryland. On Route 40, 0.25 mile west of main intersection at Clear Spring, about 10 feet south of highway. Unused dug domestic well, depth 35.3 feet. Wooden cover flush with land surface. Records available: 1949. May 23, 29.69; Aug. 12, 30.02; Nov. 30, 32.63.

Wa-Bh 3. Mel Sword. Lat. 39°39'00", long. 77°46'31". Used drilled well, depth 218 feet. Records available: 1946-49.

Feb. 11	16.64	May 23	32.53	Aug. 11	23.59	Nov. 9	30.55
22	17.96	June 24	35.27	Sept. 14	27.87	30	31.72
Mar. 6	20.00	Aug. 8	24.95	Oct. 7	29.21	Dec. 14	32.32
May 9	33.78						

Wa-Dh 1. John Murphy. At Sharpsburg. Lat. 39°27'23", long. 77°45'08". Used dug well, diameter 36 inches, depth 28.5 feet. Records available: 1946-49.

Jan. 7	18.80	May 5	26.67	July 8	27.70	Sept. 15	25.13
Feb. 24	18.23	24	25.46	Aug. 5	25.31	Dec. 1	25.62
Apr. 7	27.45	June 2	25.60	11	27.66	13	25.04

## MARYLAND

### EASTERN SHORE

By J. W. Brookhart

#### PROGRAM OF WORK

In July 1949, in cooperation with the Maryland Department of Geology, Mines and Water Resources, a field office was set up in Salisbury to investigate the ground-water resources of the State east of the Chesapeake Bay. Prior to 1949, 12 observation wells were measured on the Eastern Shore as part of a State-wide program. Sixteen observation wells were added in 1949. The wells are  $1\frac{1}{4}$ -inch slotted steel pipe and range in depth from 9 feet to 25 feet. Each of the wells was cemented in and marked with a permanent sign, and the exposed pipe was painted bright yellow. During 1949, a total of 186 individual measurements was made in 19 wells. One continuous water-stage recorder was maintained throughout the year, and a second continuous recorder was installed in September.

#### FLUCTUATIONS OF WATER LEVELS

Only two wells (Wi-Ce 13 and Wi-Ce 72) measured in 1949 were also measured in 1948 so that water levels can be compared. Wi-Ce 13 is in the well field of the city of Salisbury, and during the month of August 1949, the water levels were slightly lower than in 1948 but not so low as in 1947. By December of 1949, the water level in Wi-Ce 13 had recovered to a point where it was higher than at any time since the measurements were started in July 1947.

Well Wi-Ce 72 was set up as an observation well in April 1948. In August 1949, the water level reached the lowest point in 2 years of measurement. However, the well recovered throughout the fall of 1949 and by December the water level was within 0.60 foot of the December 1948 levels.

In the new shallow observation wells set up in 1949, the water levels started to rise at the end of the growing season and continued to rise throughout the fall. They were still rising at the end of 1949.

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

Caroline County

Care-Bc 1. W. Colliers. On east side of State Highway 313, 300 feet north of intersection of State Highway 312. Driven observation well, depth 20.5 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level
Aug. 17	2.10	Sept. 27	2.42	Nov. 29	1.73
Sept. 9	2.30	Oct. 29	2.72	Dec. 29	1.25

Care-Cd 1. Lane Chicken Farm. On west side of State Highway 313, 1.2 miles north of intersection of State Highway 317. Driven observation well, depth 10 feet. Records available: 1949.

Aug. 17	6.87	Sept. 26	6.32	Nov. 29	5.50
Sept. 1	6.12	Oct. 29	6.72	Dec. 29	5.32

Care-Fd 4. N. Lannule. In Federalsburg, on west side of State Highway 313, 1.75 miles north of intersection of State Highway 319. Driven observation well, depth 9 feet. Records available: 1949.

Aug. 29	5.28	Sept. 27	5.95	Nov. 29	5.55
Sept. 1	5.45	Oct. 29	6.49	Dec. 29	5.60

Cecil County

Ce-Bf 1. Philadelphia, Baltimore & Wilmington Railroad. 50 feet southwest of Iron Hill railroad station. Abandoned well with broken pump, diameter 16 inches, depth 71 feet. Records available: 1949. Sept. 28, 8.36; Oct. 26, 8.61; Nov. 29, 8.11; Dec. 29, 6.37.

Ce-Cf 1. State Road Commission, on west side of State Highway 213, 2.2 miles south of intersection of U. S. Highway 40, 75 feet north of stream. Driven observation well, depth 10 feet. Records available: 1949.

Sept. 9	4.80	Oct. 26	3.77	Dec. 29	3.05
29	4.16	Nov. 29	3.60		

Ce-Ee 1. State Road Commission, on east side of State Highway 213, 0.7 mile south of intersection of State Highway 282, in Cecilton. Driven observation well, depth 20 feet. Records available: 1949.

Aug. 17	6.75	Sept. 28	7.76	Nov. 29	9.05
Sept. 9	7.40	Oct. 26	8.56	Dec. 29	9.39

Dorchester County

Dor-Ce 11. Dorchester Water Co. In Cambridge. Records available: 1946-48. Measurements discontinued.

Dor-Cg 1. State Road Commission. On north side of old road to Salem, 0.10 mile west of U. S. Highway 50, 5 feet south of pole used to brack power line. Driven observation well, depth 12 feet. Records available: 1949.

Sept. 1	3.73	Oct. 26	4.42	Dec. 29	2.75
27	4.06	Dec. 1	3.05		

Kent County

Ken-Dc 1. Catherine Overbeck. On west shore of Chester River, 0.7 mile northeast of Deep Point. Drilled domestic well, diameter 6 inches, depth 87 feet. Records available: 1947-48. No measurement made in 1949.

Queen Annes County

QA-Be 1. State Road Commission. On north side of State Highway 213, 0.35 mile west of intersection of State Highway 544, next to east end of concrete culvert. Driven observation well, depth 20.5 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level
Sept. 9	1.20	Oct. 26	1.73	Dec. 29	2.21
27	1.35	Nov. 29	1.96		

QA-Ed 1. Carey Washington. On east side of U. S. Highway 50, 1.5 miles southwest of intersection with U. S. Highway 18, across road from secondary road entering U. S. Highway 50. Driven observation well, depth 20.7 feet. Records available: 1949.

Sept. 1	5.89	Oct. 27	7.98	Dec. 29	6.58
26	6.51	Dec. 1	7.06		

Somerset County

Som-Be 1. State Road Commission. On north side of State Highway 362, 1.3 miles west of U. S. Highway 13, 4 feet west of concrete culvert. Driven observation well, depth 22.5 feet. Records available: 1949.

Aug. 16	3.91	Sept. 29	3.17	Nov. 29	1.73
31	3.82	Oct. 25	2.98	Dec. 29	1.02

Som-Cf 2. State Road Commission. On north side of U. S. Highway 13, 1.5 miles southeast of Greenhill Road fork and 4.9 miles northwest of Pocomoke City, in wooded triangle formed by old U. S. Highway 13. Driven observation well, depth 15 feet. Records available: 1949.

Aug. 16	4.67	Sept. 29	4.73	Nov. 29	2.63
31	4.76	Oct. 25	3.74	Dec. 29	2.27

Talbot County

Tal-Be 1. Fred J. Hall. On east side of U. S. Highway 50, 2.9 miles north of intersection of State Highway 309 and 6.0 miles south of intersection of State Highway 404, just inside fence line and 50 feet south of gate. Driven observation well, depth 16.3 feet. Records available: 1949.

Aug. 18	13.02	Sept. 27	13.39	Dec. 1	12.84
Sept. 1	13.30	Oct. 26	13.57	29	12.24

Tal-De 1. L. Lowman. On west side of U. S. Highway 50, 5.65 miles south of State Highway 331 intersection, in Easton, underpower line, 75 feet west of road and 300 feet southeast of concrete block house. Driven observation well, 16.5 feet. Records available: 1949.

Aug. 18	5.68	Sept. 27	6.50	Dec. 1	7.32
Sept. 1	6.07	Oct. 26	6.89	29	7.52

Wicomico County

Wi-Bf 2. W. T. Holland. 1.5 miles south of Delmar, 0.4 mile west of U. S. Highway 13. Unused drilled domestic well, diameter 2 inches, depth 85 feet. Records available: 1947-48. No measurement made in 1949.

Wi-Ce 13. City of Salisbury. In Salisbury, on south bank of South Prong, about 600 feet above tidewater dam. Unused drilled well, diameter 16-10 inches, depth 65 feet. Records available: 1947-49.



## Wi-Ce 13--Continued.

(From recorder charts)												
Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	2.63	4.34	2.73	4.25	2.81	3.90	....	....	4.32	4.92	3.38	5.06
2	2.60	4.18	2.87	4.28	2.92	4.73	....	....	4.18	5.80	3.42	5.09
3	2.67	4.81	2.82	4.22	3.45	4.84	....	....	4.52	5.92	3.41	5.23
4	3.00	4.84	2.79	4.19	3.63	4.99	....	....	4.68	5.98	3.51	5.25
5	2.78	4.51	2.75	4.22	3.63	5.02	....	....	4.77	6.03	3.64	5.04
6	2.66	4.61	2.65	2.92	3.69	3.95	....	....	4.85	6.32	3.77	5.50
7	2.78	4.82	2.60	4.15	3.76	5.24	....	....	....	....	4.03	5.69
8	2.90	4.63	2.77	4.19	3.84	4.92	4.22	5.19	4.39	5.78	4.12	5.81
9	2.71	2.90	2.71	3.75	3.74	5.20	4.18	5.13	4.27	6.22	4.16	5.87
10	2.69	4.63	2.67	4.00	3.55	5.00	4.07	4.97	4.31	6.13	4.19	5.92
11	2.85	4.84	2.69	4.08	3.09	3.55	3.87	4.89	4.44	5.95	4.30	5.94
12	2.92	4.54	2.72	4.03	3.02	3.21	3.82	4.16	4.11	6.09	4.40	5.55
13	2.84	4.84	2.64	3.75	3.19	4.43	3.72	4.76	4.09	6.03	4.33	5.91
14	3.30	4.98	2.61	4.10	3.32	5.12	3.41	5.04	3.98	6.19	4.48	6.02
15	2.88	4.82	2.76	4.20	3.60	5.31	3.57	4.98	4.35	5.27	4.82	6.15
16	2.85	3.11	2.84	4.04	3.73	5.07	3.79	5.29	5.22	5.91	4.62	6.14
17	2.82	4.66	2.80	4.27	3.77	5.12	4.03	5.12	4.53	6.02	4.23	5.77
18	2.95	4.81	2.89	4.45	3.77	5.02	3.97	5.06	4.80	6.08	3.68	4.23
19	2.93	4.90	2.85	4.29	3.66	5.00	4.08	4.46	4.93	6.46	3.58	5.14
20	2.96	4.55	2.77	3.93	3.56	3.81	4.18	4.61	5.26	6.63	3.52	5.62
21	2.88	4.72	2.75	4.23	3.56	4.92	4.10	5.34	4.94	6.44	3.90	5.74
22	2.78	4.48	2.87	4.25	3.70	5.00	4.18	4.75	4.38	6.29	4.07	5.83
23	2.59	2.84	2.82	4.31	3.77	4.95	4.04	4.24	4.20	5.98	4.20	5.93
24	2.57	4.27	2.93	4.74	3.66	4.97	3.92	4.23	4.48	6.63	4.28	6.00
25	2.68	4.47	2.92	4.46	3.62	5.01	4.23	4.42	4.71	6.43	4.57	6.13
26	2.74	4.43	2.95	4.38	3.59	4.93	4.02	5.51	4.74	6.31	4.49	5.96
27	2.75	4.68	2.92	3.94	3.51	3.61	4.19	5.70	4.48	6.19	4.73	6.19
28	2.78	4.50	2.85	3.80	....	....	4.22	5.73	4.04	5.53	4.85	6.22
29	2.83	4.38	....	....	....	....	4.29	5.82	3.54	4.09	4.53	6.25
30	2.77	3.91	....	....	....	....	4.30	5.80	3.42	4.81	4.44	6.14
31	2.67	4.09	....	....	....	....	....	....	3.34	4.85	....	....

[illegible]

## W1-Ce 13--Continued.

(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	4.25	June 3	5.23	Oct. 12	6.63	Nov. 28	5.53
Feb. 21	4.01	15	6.02	26	6.22	Dec. 5	5.15
Mar. 16	4.66	July 20	6.30	31	5.67	12	5.55
24	4.08	Aug. 10	6.85	Nov. 7	5.95	10	5.84
Apr. 8	5.35	18	6.10	14	5.62	26	3.92
May 8	5.40	Sept. 26	5.54	21	5.66		

W1-Ce 16. City of Salisbury. In Salisbury. Unused drilled well, diameter 4 inches, depth 60 feet. Records available: 1947. No measurements made in 1948-49.

W1-Ce 17. City of Salisbury. Unused drilled well, diameter 4 inches, depth 63 feet. Records available: 1947-48. No measurement made in 1949.

W1-Ce 21. State Game Farm. 0.4 mile north of Salisbury on east bank of Coty Cox Branch. Used drilled well, diameter 2.5 inches, depth 137 feet. Records available: 1947. No measurement made in 1948-49.

W1-Ce 24. Lowe Bros. 1.9 miles north of U. S. Highway 50 on east side. Unused driven domestic well, diameter 1.5 inches, depth 44 feet. Records available: 1947-48. No measurement made in 1949.

W1-Ce 72. Pine Bluff Sanatorium. 2.5 miles southwest of Salisbury. Records available: 1948-49.

Jan. 8	21.68	Apr. 18	21.54	July 9	22.21	Oct. 10	22.32
17	21.66	25	21.65	18	22.23	17	22.36
22	21.70	30	21.70	23	22.31	24	22.36
Feb. 7	21.67	May 7	21.88	30	22.45	30	22.34
19	21.66	May 15	21.74	Aug. 6	22.85	Nov. 5	22.33
28	21.63	23	21.72	15	22.44	14	22.13
Mar. 5	21.63	30	21.87	22	22.44	19	22.10
12	21.63	June 6	21.96	30	22.43	30	22.10
Mar. 17	21.77	13	22.03	Sept. 10	22.37	Dec. 10	22.27
26	21.62	27	22.14	19	22.35	18	22.27
30	21.60	30	22.16	25	22.37	24	22.30
Apr. 9	21.57	July 5	22.19	30	22.34	30	22.36

W1-Cf 1. City of Salisbury. Unused drilled well, diameter 4 inches, depth 60 feet. Records available: 1947. No measurements made in 1948-49.

W1-Cf 2. City of Salisbury. Unused drilled well, diameter 4 inches, depth 66 feet. Records available: 1947-48. No measurements made in 1949.

W1-Cf 3. Salisbury Airport. 3.7 miles east of Salisbury and 0.7 mile south of State Highway 350. Unused drilled well, diameter 16 inches, depth 109 feet. Records available: 1947-49.

(From recorder charts)

Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	8.67	....	7.46
2	....	....	8.64	5.10	7.37
3	....	....	....	5.40	7.54
4	....	....	....	5.86	7.50
5	....	....	....	6.19	7.50
6	....	8.57	6.79	6.41	7.61
7	....	8.60	8.85	6.52	7.55
8	....	8.60	8.87	6.66	7.77
9	....	8.67	8.89	6.87	7.85
10	....	8.75	8.91	6.93	7.84
11	....	8.80	8.92	7.00	7.86
12	....	8.85	9.02	7.18	7.85
13	....	8.72	9.00	7.16	7.85
14	....	8.62	9.00	7.12	7.95
15	....	8.24	....	7.17	7.96

## W1-Cf 3--Continued.

(From recorder charts)

Day	Aug.	Sept.	Oct.	Nov.	Dec.
16	....	8.24	....	7.26	8.03
17	....	8.37	....	7.26	8.03
18	....	8.40	....	7.33	8.00
19	....	8.42	....	7.42	8.03
20	....	8.50	9.08	7.37	8.09
21	....	8.61	9.10	7.55	8.04
22	9.62	8.62	9.10	7.67	8.02
23	9.66	8.60	9.15	7.57	8.03
24	9.67	....	8.94	7.68	8.19
25	9.49	....	8.97	7.55	8.16
26	9.51	8.81	8.98	7.70	8.01
27	9.54	8.80	9.04	7.59	7.97
28	9.61	8.77	9.02	7.70	8.00
29	9.34	8.76	7.74	7.46	7.93
30	9.30	8.66	....	7.38	8.00
31	9.32	....	6.98	....	7.99

(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 24	4.96	Sept. 6	8.56	Sept. 16	9.09	Nov. 21	5.57
Aug. 2	11.14	12	8.85	20	9.10	28	7.73
9	9.52	19	8.43	24	10.20	Dec. 5	7.51
16	9.52	26	8.80	31	7.04	12	7.88
22	9.62	Oct. 2	8.65	Nov. 7	6.52	19	8.03
29	9.37	10	8.89	14	7.14	26	8.00

W1-Cg 20. State Road Commission. On south side of U. S. Highway 50, 1.45 miles east of Parsonsburg and 1.5 miles west of Pittsville, 300 feet west of railroad crossing. Driven observation well, depth 25 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level
Aug. 16	6.18	Sept. 29	5.82	Nov. 29	4.50
31	6.78	Oct. 25	5.07	Dec. 31	4.81

Worcester County

Wor-Bg 1. State Road Commission. On U. S. Highway 50, 0.4 mile east of Herring Crook and 2.2 miles west of Ocean City drawbridge, in parkway between 4-lane highway, 2 feet south of concrete drainage ditch in center of parkway. Driven observation well, depth 14 feet. Records available: 1949.

Aug. 16	6.47	Sept. 29	6.39	Nov. 29	4.25
31	6.40	Oct. 25	5.37	Dec. 31	4.72

Wor-Dd 9. State Road Commission. On State Highway 113, 1 mile north of intersection of State Highway 365, in Snow Hill, at east corner of State Road Commission fence around garage. Driven observation well, depth 20.5 feet. Records available: 1949.

Aug. 16	11.68	Sept. 29	11.83	Nov. 29	11.75
31	11.79	Oct. 25	11.81	Dec. 31	12.16

## NORTH CAROLINA

By H. E. LeGrand

### PROGRAM OF WORK

The program of water-level measurements in wells, begun in 1931, was continued in 1949 in cooperation with the North Carolina Department of Conservation and Development. The systematic survey of the ground-water resources of the State, begun in 1941, was also continued. Water-level measurements were made on 56 observation wells during 1949, of which 6 were measured daily. Location of wells is shown on figure 11.

### FLUCTUATIONS OF WATER LEVELS

In North Carolina a relationship exists between water levels and precipitation but this relationship is not a simple one because factors other than precipitation affect the water levels. The water levels measured are chiefly those of the water table but some represent the piezometric surface expressing the artesian water level. Water-table wells in the Coastal Plain generally respond much more quickly to rainfall than wells in the Piedmont, because the water table is generally closer to the surface and the surficial deposits are more permeable in the Coastal Plain.

With normal precipitation, the cycle of water-table fluctuations begins with a gradual rise, starting usually in December or January. The level generally continues to rise until April or May after which it begins to decline. The decline continues, interrupted only by rises of short duration caused by summer rainstorms, until the following December or January.

The water table rises in late winter and spring because very little water is lost by evaporation or is used by vegetation, so that a relatively large part of the precipitation reaches the water table. Although the amount of rainfall is larger during the summer months, the amount used by vegetation and evaporation is so large that generally little or no rainfall reaches the water table. Figure 12 shows the fluctuation of the water table in well 1, Davie County, from 1932 through 1949 and its relationship to precipitation.

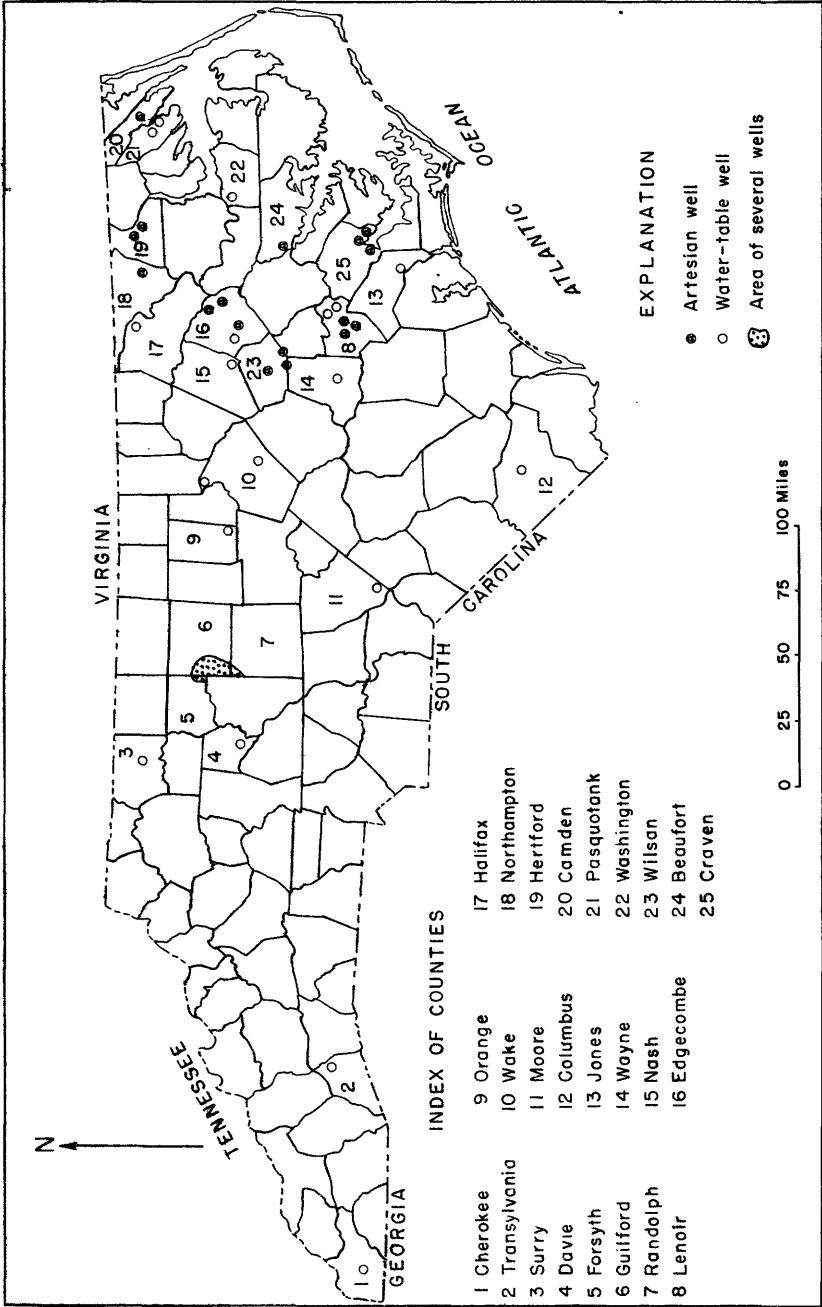


Figure 11.--Map of North Carolina showing location of observation wells, 1949.

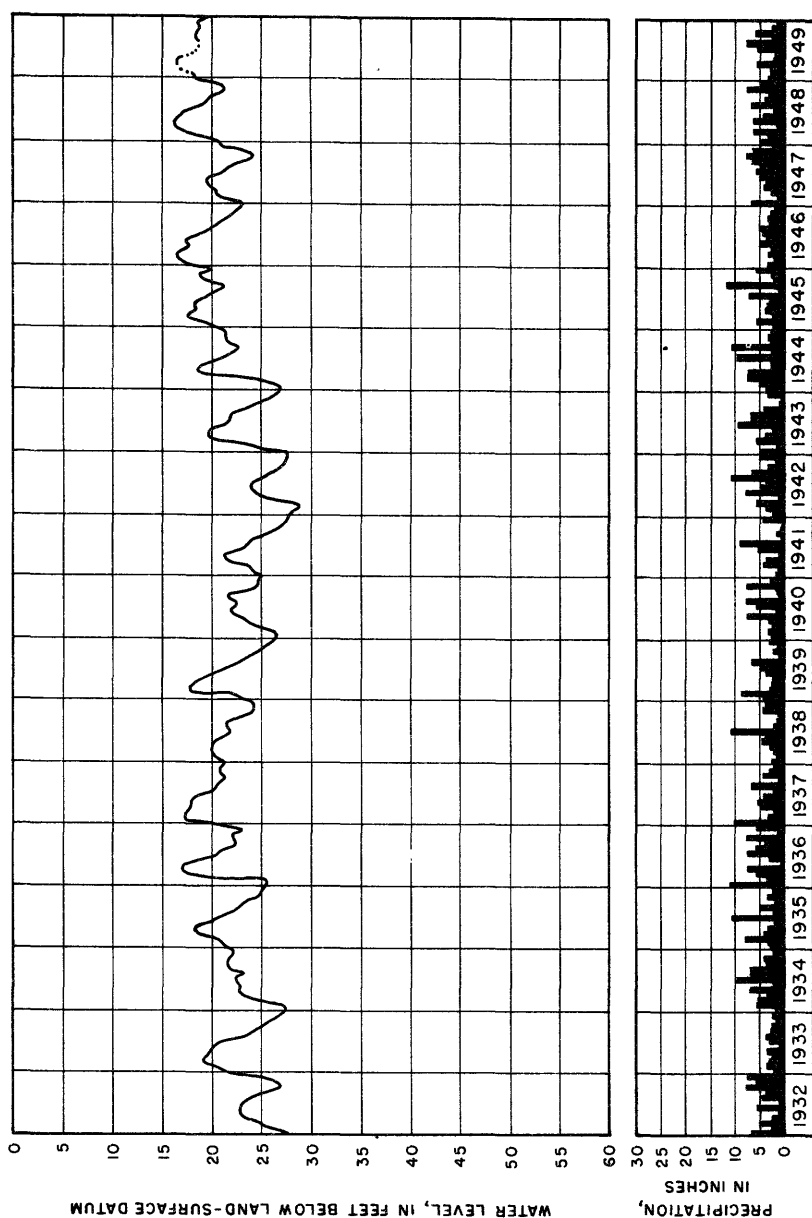


Figure 12.--Graphs showing fluctuations of water level in well 1, Davie County, and monthly precipitation at Salisbury, Rowan County.

The range in water level in artesian aquifers is generally slight except near areas of recharge and near areas where water is pumped from the same aquifer. Well 14, Hartford County, for example, is remotely spaced from pumping and from recharge to the aquifer which it penetrates and, consequently, expresses a water level which fluctuated only 0.58 foot in 1949.

In 1949 the average rainfall at all Weather Bureau stations in the State was 54.12 inches, about 4.5 inches above normal.

#### WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS\*

##### Alamance County

1. Governor Holt well. J. W. Thompson. On south side of New River-Graham highway, 0.25 mile west of Haw River. Records available: 1935-48. Measurements discontinued.

##### Beaufort County

11. City of Washington. At Washington, about 200 yards north and 78° west of round concrete reservoir. Layne gravel well 2. Diameter 8 inches, depth 129 feet, yield 250 gallons a minute. Abandoned because water contains iron. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	8.69	Mar. 30	8.72	July 21	9.15	Dec. 30	8.07
25	8.60	May 30	8.75	Nov. 21	8.05		

##### Cherokee County

1. At Murphy, in rear of First Baptist Church. Records available: 1943-49. Dug well, about 5 feet square, depth 50 feet.

##### Mean daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.51	39.78	38.79	38.66	38.50	38.48	38.98	38.70	38.93	39.29	39.01	39.31
2	41.47	39.80	38.78	38.73	38.52	38.50	39.02	38.65	38.97	39.32	39.21	39.36
3	41.44	39.80	38.76	38.75	38.56	38.54	39.02	38.65	38.99	39.33	39.25	39.41
4	41.40	39.73	38.75	38.79	38.59	38.55	39.03	.....	39.02	39.31	39.29	39.42
5	41.08	39.68	38.70	38.80	38.59	38.55	39.03	38.70	39.02	39.30	39.30	39.42
6	40.80	39.66	38.64	38.78	38.54	38.55	39.04	38.69	38.92	39.29	39.33	.....
7	40.79	39.62	38.66	38.81	38.50	38.57	39.04	38.69	38.90	.....	39.32	39.40
8	40.83	39.59	38.66	38.80	38.46	38.61	39.05	38.67	38.96	.....	39.28	39.43
9	40.83	39.55	38.64	38.83	38.45	38.70	39.09	38.65	38.98	.....	39.27	39.48
10	40.80	39.44	38.58	38.85	38.42	38.71	39.09	38.65	39.03	.....	39.25	.....
11	40.74	.....	38.62	38.86	38.41	38.71	39.08	38.66	39.08	39.44	39.23	.....
12	40.65	.....	38.64	38.82	38.44	38.70	39.06	38.66	39.09	39.43	39.22	.....
13	40.62	.....	38.66	38.70	38.43	38.71	39.00	38.64	39.07	39.44	39.19	.....
14	40.55	39.40	38.65	38.60	38.44	38.73	38.99	38.64	39.06	39.46	39.18	39.50
15	40.53	39.35	38.65	38.69	38.43	38.73	39.99	38.65	39.07	39.47	39.17	39.54
16	40.48	39.29	38.69	38.75	38.40	38.72	39.01	38.67	39.07	39.47	39.18	39.58
17	40.43	39.15	38.69	38.79	38.41	38.68	38.96	38.67	39.09	39.48	39.18	39.63
18	40.39	39.17	38.64	38.78	38.41	38.77	38.94	38.67	39.12	39.48	39.20	39.62
19	40.35	39.14	38.71	38.80	38.40	38.82	38.95	38.66	39.12	39.49	39.23	39.57
20	40.34	39.07	38.77	38.82	38.36	38.85	38.95	38.67	39.13	39.50	39.21	39.61
21	40.31	39.06	38.76	38.83	38.35	38.85	38.93	38.71	39.14	39.51	39.19	39.63
22	40.24	.....	38.70	38.77	38.34	38.86	38.92	38.76	39.15	39.51	39.23	39.60
23	40.10	39.10	38.69	38.75	38.37	38.86	38.91	38.77	39.13	39.53	39.25	39.49
24	40.09	38.97	38.72	38.72	38.38	38.86	38.88	38.80	39.15	39.53	39.21	39.56
25	40.10	38.91	38.76	38.76	38.39	38.91	38.85	38.83	39.19	39.53	39.17	39.67
26	40.08	38.88	38.77	38.77	38.40	38.95	38.81	38.86	39.22	39.53	39.21	39.67
27	40.05	38.84	38.76	38.76	38.41	39.98	38.78	38.86	39.22	39.56	39.22	39.64

\*Observation wells in North Carolina are listed alphabetically by counties and numerically within each county.

1--Continued.

Mean daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
28	39.98	38.79	38.77	38.68	38.43	38.96	38.76	38.84	.....	39.57	39.24	39.65
29	39.98		38.78	38.58	38.44	38.95	38.73	38.86	39.18	39.57	39.25	39.68
30	39.99		38.79	38.46	38.46	38.97	38.69	38.91	39.22	39.49	39.25	39.69
31	39.97		38.77		38.46		38.66	38.90		39.04		.....

Columbus County

1. Mrs. C. W. Maulsby. In Whiteville. Records available: 1944-49.  
Dug well, diameter 36 inches, depth 10½ feet.

Mean daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	5.40	2.43	....	7.24	6.94	....	5.75	7.43	6.88	8.72	9.20
2	....	5.50	2.52	....	6.94	6.96	....	5.91	7.39	6.98	8.74	9.20
3	....	5.56	2.92	....	5.01	6.97	....	6.02	7.27	7.06	8.76	9.21
4	3.42	5.58	3.20	....	3.42	6.98	....	6.15	7.00	7.12	9.77	9.21
5	3.49	5.59	3.44	....	3.52	6.99	....	6.28	6.72	7.18	8.78	9.21
6	3.47	5.60	3.60	....	3.87	7.02	....	6.41	6.45	7.25	8.80	9.21
7	3.25	5.54	3.73	....	4.17	7.06	....	6.52	4.87	7.30	8.81	9.21
8	3.33	5.49	3.89	....	4.44	7.12	....	6.73	3.52	7.33	8.83	9.21
9	3.50	5.48	4.04	....	4.64	7.18	....	6.74	3.50	7.33	8.84	9.22
10	3.64	5.28	....	....	4.78	7.23	....	6.86	3.94	7.44	8.86	9.23
11	3.74	3.80	....	....	4.67	7.28	....	6.97	4.30	7.52	8.87	9.24
12	3.83	....	....	6.35	4.39	7.30	4.20	7.07	4.58	7.56	8.89	9.24
13	3.96	....	....	6.37	4.43	7.30	4.39	7.18	4.74	7.62	8.90	9.25
14	4.04	....	....	6.44	4.59	7.23	4.15	7.29	4.88	7.67	8.91	9.27
15	4.09	....	....	6.50	4.77	7.02	3.39	7.39	4.78	7.72	8.92	9.28
16	4.27	....	....	6.56	4.95	6.65	2.31	7.48	4.71	7.88	8.94	9.26
17	4.37	3.68	....	6.65	5.10	....	2.33	7.58	4.82	7.84	8.96	9.20
18	4.47	3.92	....	6.71	5.26	....	2.78	7.61	5.01	7.91	8.98	9.15
19	4.55	4.06	....	6.77	5.38	....	2.73	7.66	5.15	7.96	9.00	9.06
20	4.63	4.01	....	6.85	5.52	....	2.89	7.71	5.32	8.02	9.00	9.03
21	4.73	1.95	....	6.93	5.68	....	3.19	7.73	5.51	8.08	9.02	8.95
22	4.77	1.62	....	6.99	5.90	....	3.58	7.76	5.66	8.15	9.05	8.90
23	4.85	1.90	....	7.05	5.96	....	3.94	7.76	5.82	8.19	9.08	8.85
24	4.93	2.12	....	7.11	6.16	....	4.20	7.75	6.02	8.25	9.11	8.81
25	4.99	2.46	....	7.18	6.30	....	4.44	7.71	6.19	8.30	9.12	8.77
26	5.05	2.65	....	7.26	6.43	....	4.66	7.67	6.34	8.36	9.15	8.73
27	5.10	3.02	....	7.32	6.53	....	4.88	7.63	6.44	8.42	9.17	8.70
28	5.14	3.18	....	7.38	6.64	....	5.09	7.59	6.54	8.49	9.18	8.67
29	5.20	....	....	7.43	6.73	....	5.26	7.54	6.64	8.54	9.19	8.59
30	5.31	....	....	7.40	6.83	....	5.44	7.49	6.77	8.59	9.20	8.54
31	5.36	....	....	....	6.90	....	5.59	7.47	....	8.69	....	8.51

11. Town of Whiteville. At water plant outside pumphouse, near railroad. Records available: 1948. No measurements made in 1949.

Craven County

81. City of New Bern. At New Bern, on Glenburnie tract of old city wells, at old pump station 2. Records available: 1947-49. Unused drilled well, diameter 8 inches, depth 120 feet.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	11.30	Mar. 31	11.52	July 22	11.46	Dec. 30	11.30
25	11.02	May 31	11.22	Nov. 30	11.56		

102a. City of New Bern. On north side of U. S. Highway 70, about 0.1 mile northwest of New Bern, about 0.1 mile northwest of new pumping station and reservoir, 29 feet east of pumphouse of city well 2. Drilled observation well, diameter 4 inches, Depth about 38 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	10.50	Mar. 31	8.39	July 22	10.76	Dec. 30	13.72
25	8.28	May 31	10.04	Nov. 30	11.42		



108. City of New Bern. At New Bern, on Glenburnie tract of old city wells, 100 feet west of pumphouse, in brick pit 4.1 feet deep. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Feb. 2	5.25	Mar. 31	5.46	Nov. 30	7.74
25	4.96	May 31	5.49	Dec. 30	5.35

#### Davie County

1. Kurfee Well. At Mocksville, 1 block south of courthouse, on U. S. Highway 64 and 601. Records available: 1935-49.

Mean daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.22	17.66	16.65	16.29	16.18	.....	17.92	18.40	18.28	.....
2	18.24	17.72	16.70	16.42	16.10	.....	17.92	18.42	18.17	.....
3	18.27	17.69	16.75	16.43	16.07	.....	17.92	18.44	18.15	.....
4	18.27	17.58	16.76	16.49	16.07	.....	17.89	18.46	18.13	.....
5	18.07	17.56	16.76	16.46	16.09	.....	17.87	18.47	18.10	.....
6	17.71	17.56	16.75	16.28	16.11	.....	17.86	18.50	18.11	.....
7	17.80	17.51	16.81	16.29	16.13	.....	17.85	18.54	18.11	.....
8	17.81	17.52	16.87	16.27	16.19	.....	17.84	18.59	18.10	.....
9	17.81	17.51	16.86	16.32	16.24	.....	17.82	18.61	18.10	.....
10	17.81	17.13	16.83	16.37	16.25	.....	17.84	18.63	18.10	.....
11	17.80	17.17	16.90	16.38	16.29	.....	17.86	18.66	18.10	.....
12	17.76	17.19	16.95	16.33	16.33	.....	17.86	18.66	18.10	.....
13	17.75	17.12	16.99	16.16	.....	.....	17.84	18.71	18.11	.....
14	17.76	17.05	17.03	16.08	.....	.....	17.84	18.75	18.11	.....
15	17.81	17.03	17.04	16.04	.....	.....	17.86	18.75	18.13	.....
16	17.83	16.93	17.10	16.07	.....	.....	17.88	18.79	18.17	.....
17	17.81	16.90	17.11	16.13	.....	18.25	17.91	18.84	18.19	.....
18	17.81	16.95	17.08	16.14	.....	18.28	17.95	18.87	18.24	.....
19	17.82	16.85	17.18	16.21	.....	18.28	17.95	18.88	18.28	.....
20	17.87	16.63	17.25	16.28	.....	18.31	17.97	18.91	.....	.....
21	17.90	16.65	17.26	16.30	.....	18.36	18.02	18.95	.....	.....
22	17.89	16.61	17.21	16.27	.....	18.28	18.03	18.97	.....	19.15
23	17.88	16.56	17.12	16.27	.....	18.30	18.03	19.01	.....	19.18
24	17.88	16.58	17.18	16.31	.....	18.30	18.10	19.05	.....	19.29
25	17.88	16.57	17.08	16.43	.....	18.31	18.17	19.09	.....	19.32
26	17.88	16.60	16.84	16.46	.....	18.34	18.21	19.08	.....	19.29
27	17.88	16.61	16.62	16.45	.....	18.35	18.22	19.16	.....	19.27
28	17.84	16.58	16.53	16.46	.....	18.19	18.22	19.17	.....	19.29
29	17.88		16.50	16.53	.....	18.08	18.23	19.16	.....	19.33
30	17.97		16.38	16.46	.....	18.10	18.33	18.88	.....	19.37
31	17.77		16.28		.....	18.02		18.50		19.39

#### Edgecombe County

23. John Lane. At Speed, 8 miles northeast of Tarboro. Drilled well, diameter  $4\frac{1}{4}$  inches, depth 100 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	5.37	May 30	6.37	Sept. 21	4.46	Nov. 29	2.05
24	6.80	July 2	5.55	Oct. 31	4.83	Dec. 29	5.07
Mar. 30	5.48	Sept. 1	4.87				

59. I. W. Calhoun. About 9 miles east of Rocky Mount. Drilled well, diameter  $4\frac{1}{4}$  inches, depth 164 feet. Records available: 1946-49.

Feb. 1	29.18	May 30	29.32	Sept. 21	29.39	Nov. 29	29.35
24	29.08	July 2	27.98	Oct. 31	29.45	Dec. 29	29.44
Mar. 30	29.06	Sept. 1	29.10				

59a. I. W. Calhoun. About 9 miles east of Rocky Mount. Dug well, diameter 24 inches, depth 45 feet. Records available: 1946-49.

## 59a--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	22.54	May 30	24.4	Sept. 21	24.72	Nov. 29	25.80
24	20.71	July 21	26.83	Oct. 31	28.09	Dec. 29	27.71
Mar. 30	25.39	Sept. 1	24.47				

70. W. Z. Wilson. At Coakley, about 7 miles northeast of Tarboro. Drilled well, diameter  $4\frac{1}{2}$  inches, reported depth 230 feet. Records available: 1946-49.

Feb. 1	38.30	May 30	38.09	Sept. 21	38.08	Nov. 29	41.32
Feb. 24	38.35	July 21	38.18	Oct. 31	40.42	Dec. 29	38.16
Mar. 30	38.11	Sept. 1	40.52				

Forsyth County

19. W. C. Michael. On High Point-Kernersville highway, 1 mile south of Kernersville, 40 feet west of highway. Records available: 1935-49.

Jan. 28	42.43	Apr. 25	42.27	July 26	41.61	Oct. 29	41.46
Feb. 26	42.43	May 27	41.91	Aug. 30	41.50	Nov. 25	41.25
Mar. 31	42.28	July 2	41.93	Sept. 23	41.43	Dec. 28	41.34

21. G. G. Hedgecock. High Point (Kernersville). Records available: 1948-49.

Jan. 28	27.09	Apr. 25	26.90	July 26	26.92	Nov. 25	26.25
Feb. 26	27.14	May 27	26.38	Aug. 30	26.57	Dec. 28	26.59
Mar. 31	26.79	July 2	26.52	Oct. 29	26.18		

Gates County

22. C. E. Land. About 3 miles northeast of Gatesville, 0.3 mile northeast of prison camp. Jetted well, diameter 3 inches, depth 380 feet. Records available: 1946-48. Measurements discontinued.

Guilford County

2. Lindale Dairy Corp. About 1.5 miles northwest of High Point city limits and 0.5 mile north of U. S. Highway 70. Records available: 1935-49

Jan. 28	26.39	May 27	25.15	Aug. 30	26.01	Oct. 29	25.15
Feb. 26	25.55	July 2	25.75	Sept. 23	24.66	Nov. 25	24.77
Mar. 28	25.38	26	25.83	Oct. 19	24.99	Dec. 28	25.34
Apr. 25	25.39						

4. W. O. Atkins. About 0.3 mile west of Colfax, 300 feet south of U. S. Highway 421. Records available: 1935-49.

Jan. 28	28.49	Apr. 25	27.53	July 26	27.79	Oct. 29	27.59
Feb. 26	28.11	May 27	27.31	Aug. 30	27.79	Nov. 25	27.43
Mar. 31	27.69	July 2	27.45	Sept. 23	27.51	Dec. 28	28.66

7. E. J. Welch. At 1403 E. Lexington Ave., High Point, 80 feet north of street. Records available: 1935-49.

Jan. 28	21.51	Apr. 25	21.49	July 26	22.11	Oct. 29	22.08
Feb. 26	21.02	May 27	21.77	Aug. 30	20.95	Nov. 25	21.69
Mar. 28	21.09	July 2	22.02	Sept. 23	21.63	Dec. 28	22.00

8. Welch Place. At 1301 E. Lexington Ave., High Point, about 800 feet west of well 7. Records available: 1935-49.

Jan. 25	23.73	Apr. 25	21.71	July 26	24.28	Oct. 29	25.98
Feb. 26	21.18	May 27	22.08	Aug. 30	23.50	Nov. 25	25.18
Mar. 28	21.94	July 2	24.22	Sept. 23	24.73	Dec. 28	26.10

12. John Blair Estate. 1113 S. Tate St., South High Point, 80 feet northeast of Street. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	28.89	Apr. 25	28.02	July 2	29.68	Nov. 25	29.28
Feb. 26	28.44	May 27	29.04	Oct. 29	30.37	Dec. 28	30.06
Mar. 28	28.10						

14. Clodfelter Dairy. At southeastern corner of High Point, 0.5 mile east of U. S. Highway 311, near Springfield Church. Records available: 1935-49.

Jan. 28	12.77	May 27	12.86	Aug. 30	13.30	Oct. 29	14.47
Feb. 26	11.88	July 2	13.96	Sept. 23	13.35	Nov. 25	13.33
Mar. 28	12.22	26	14.51	Oct. 19	14.16	Dec. 28	14.35
Apr. 25	12.65						

I-5. H. V. Hedgecock. High Point. Records available: 1948-49.

Jan. 28	26.11	Apr. 25	23.5	July 26	25.4	Oct. 29	23.95
Feb. 26	25.17	May 27	22.98	Aug. 30	24.48	Nov. 25	23.52
Mar. 28	23.97	July 2	24.48	Sept. 23	23.55	Dec. 28	23.46

I-8. J. A. Bolejack. High Point. Records available: 1948-49.

Jan. 28	30.34	Apr. 25	29.76	July 26	29.34	Oct. 29	29.04
Feb. 26	30.33	May 27	29.60	Aug. 30	29.34	Nov. 25	29.03
Mar. 28	29.99	July 2	29.35	Sept. 23	29.09	Dec. 28	29.20

I-11. Mrs. A. C. Robinson. High Point. Records available: 1948-49.

Jan. 28	37.95	Apr. 25	36.85	July 26	37.00	Nov. 25	36.62
Feb. 26	37.80	May 27	37.19	Sept. 23	36.75	Dec. 28	36.83
Mar. 28	37.35	July 2	37.73	Oct. 29	36.84		

I-16. S. C. Idol. High Point. Records available: 1948-49.

Jan. 28	18.63	Apr. 25	18.12	July 26	18.71	Oct. 29	19.30
Feb. 26	20.22	May 27	17.95	Aug. 30	18.55	Nov. 25	18.48
Mar. 28	18.00	July 2	19.33	Sept. 23	18.22	Dec. 28	18.98

I-17. Fred Todd. High Point. Records available: 1948-49.

Jan. 28	5.83	Apr. 25	5.89	July 26	6.41	Oct. 29	6.80
Feb. 26	5.59	May 27	6.12	Aug. 30	5.75	Nov. 25	6.23
Mar. 31	5.59	July 2	7.20	Sept. 23	6.14	Dec. 28	6.41

I-23. E. W. Callaway. Kernersville. Records available: 1948-49.

Jan. 28	34.92	Apr. 25	36.15	July 26	34.2	Oct. 29	33.75
Feb. 26	36.48	May 27	35.77	Aug. 30	33.97	Nov. 25	33.74
Mar. 31	36.38	July 2	36.12	Sept. 23	34.09	Dec. 28	33.69

I-30. Mrs. J. W. Knight, Sr. (J. W. Knight, Jr.), Kernersville. Records available: 1948-49.

Jan. 28	30.44	Apr. 25	30.47	July 26	29.67	Oct. 29	29.60
Feb. 26	30.60	May 27	29.31	Aug. 30	29.89	Nov. 25	29.48
Mar. 31	30.24	July 2	30.40	Sept. 23	29.47	Dec. 28	29.76

I-42. R. J. Holmes. High Point. Records available: 1948-49.

Jan. 28	9.92	Apr. 25	8.69	July 26	11.33	Oct. 29	16.89
Feb. 26	4.88	May 27	9.22	Aug. 30	4.38	Nov. 25	13.26
Mar. 28	3.93	July 2	15.90	Sept. 23	13.08	Dec. 28	12.61

I-46. Virtle Charles. High Point. Records available: 1948-49.

Jan. 28	11.50	Apr. 25	10.99	July 26	11.57	Oct. 29	11.45
Feb. 26	10.77	May 27	11.50	Aug. 30	10.52	Nov. 25	10.97
Mar. 28	10.76	July 2	11.97	Sept. 23	10.46	Dec. 28	11.99

I-52. M. H. Sloan. High Point. Records available: 1948. Measurement discontinued.

I-60. Buck Idol. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	37.57	Apr. 25	37.48	July 26	37.92	Oct. 29	36.77
Feb. 26	37.98	May 27	37.65	Aug. 30	35.89	Nov. 25	36.32
Mar. 28	37.54	July 2	37.34	Sent. 23	35.77	Dec. 28	36.48

#### Halifax County

1. Frueler well. At Roanoke Rapids, 500 feet north of U. S. Highway 158, and 0.5 mile west of Seaboard Air Line Railroad station. Records available: 1935-49.

Jan. 31	4.75	Mar. 31	5.22	July 31	7.15	Nov. 30	6.88
Mar. 3	3.70	May 31	5.54	Aug. 31	5.02	Dec. 30	7.10

#### Hertford County

13. Town of Winton. At Winton, 150 feet southeast of tank. Diameter 8 inches, depth 31 1/4 feet. Records available: 1948-49.

Feb. 1	27.35	May 30	27.15	Sept. 1	26.93	Nov. 29	27.16
24	27.32	July 21	27.35	21	27.08	Dec. 29	27.17
Mar. 30	27.18						

14. Town of Winton. At Winton, 100 feet east of State Highway 97 and 750 feet south of intersection with U. S. Highway 158. Records available: 1946-49.

Feb. 1	26.68	May 30	26.25	Sept. 1	26.15	Nov. 29	26.10
24	26.52	July 21	26.19	21	26.13	Dec. 29	26.23
Mar. 30	26.35						

#### Jones County

1. George E. Weeks. At southeastern edge of Maysville. Records available: 1942-49.

Jan. 4	1.8	Apr. 5	3.4	July 5	5.8	Oct. 4	4.5
7	1.5	8	3.7	8	6.2	7	4.9
11	1.9	12	3.9	12	6.6	11	5.1
14	2.2	15	3.7	15	6.9	14	5.4
18	2.5	19	3.6	26	7.1	18	6.2
20	3.1	22	3.9	29	7.3	21	6.5
25	2.4	26	7.0	Aug. 2	6.4	25	6.7
28	2.6	29	6.2	5	6.7	28	7.0
Feb. 1	5.9	May 3	2.5	9	6.5	Nov. 1	7.4
4	6.2	6	2.2	12	7.0	4	1.4
8	2.2	10	3.5	16	6.2	8	2.4
11	1.7	13	3.7	19	4.6	11	2.8
15	2.8	17	4.4	23	2.9	15	5.4
18	2.5	20	4.8	26	2.0	18	4.8
Mar. 1	2.4	24	5.1	30	3.1	22	5.9
4	2.8	27	4.6	Sept. 2	1.0	25	6.2
8	3.6	June 7	4.7	6	2.2	29	6.1
11	3.9	10	5.1	9	1.7	Dec. 2	6.4
15	2.8	14	5.1	13	2.9	6	5.9
18	3.1	17	5.5	16	3.2	9	6.2
22	2.6	21	5.6	20	.9	13	6.6
25	2.2	24	5.9	23	1.1	16	6.4
29	2.7	28	6.5	27	3.1	27	2.1
Apr. 1	3.1	July 1	6.9	29	3.4	30	1.9

Lenoir County

4. City of Kinston well 1. At water and light plant, 0.7 mile west of center of town, on southeast corner of lot, about 20 feet west of fence, in red brick pumphouse. Records available: 1947. No measurements made in 1949.

4A. City of Kinston, well 2. At water and light plant, 0.7 mile west of center of town, on southwest corner of lot near river, about 300 feet west of well 1, in galvanized-sheet iron pumphouse. Records available: 1947-48. No measurements made in 1949.

6. Ernest L. Johnson. About 4 miles northwest of Kinston, 0.75 mile southwest of airport, about 75 feet east of barn, in square concrete-block shelter with wood and metal cover. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Feb. 2	10.45	Mar. 31	10.64	Nov. 30	11.18
25	10.70	July 22	11.47	Dec. 30	11.26

6a. Ernest L. Johnson. About 75 feet west of well 6, about 40 feet west of barn on edge of terrace. Records available: 1947-49.

Feb. 2	7.56	Mar. 31	7.08	Nov. 30	7.89
25	6.66	July 22	6.85	Dec. 30	8.43

27. Caswell Training School. Two miles west of intersection of Highways 70 and 258, 0.1 mile north on east side of road (Bull Road), 30 feet south of round concrete reservoir, in square red brick pumphouse. Records available: 1947-49. Feb. 2, 37.53; Mar. 31, 23.42; July 22, 37.80.

31. City of Kinston. On south side of Highway 70, about 0.7 mile west of Caswell Training School and 500 feet east of city's red brick pumphouse, on shoulder of highway, with concrete slab around well. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	+0.45	Mar. 31	+0.86	July 22	+1.79	Dec. 30	+0.46
25	+.90	May 31	+.63	Nov. 30	+.29		

Martin County

2c. Town of Williamston. At Williamston, 20 feet southeast of round concrete reservoir at power plant. Records available: 1946-48. No measurements made in 1949.

Moore County

1. Pure Oil Station. In Pinebluff. Records available: 1944-49.

Mean daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.43	35.13	33.89	33.97	33.69	33.79	33.00	33.44	32.49	32.59	32.44	32.68
2	33.57	35.23	33.88	34.00	33.55	33.80	33.31	33.44	32.56	32.57	32.45	32.69
3	33.71	35.31	33.82	34.00	33.47	33.80	33.44	33.45	32.68	32.56	32.43	32.71
4	33.79	35.36	33.82	34.00	33.41	33.79	33.53	33.45	32.76	32.55	32.44	32.71
5	33.82	35.43	33.82	34.00	33.50	33.78	33.59	33.45	32.85	32.54	32.46	32.71
6	33.74	35.51	33.82	33.98	33.60	33.79	33.62	33.45	32.88	32.53	32.47	32.72
7	33.31	35.57	33.88	34.00	33.66	33.80	33.65	33.43	32.87	32.52	32.46	32.72
8	33.40	35.65	33.90	34.00	33.72	33.81	33.69	33.42	32.87	32.50	32.46	32.75
9	33.52	35.71	33.89	34.03	33.64	33.83	33.71	33.41	32.89	32.41	32.47	32.78
10	33.62	35.75	33.80	34.04	33.57	33.82	33.71	33.40	32.89	32.42	32.47	32.79
11	33.67	35.83	33.81	34.04	33.13	33.80	33.72	33.39	32.87	32.44	32.46	32.79
12	33.70	35.91	33.83	34.03	33.10	33.78	33.74	33.37	32.83	32.45	32.48	32.80
13	33.77	35.97	33.85	34.00	33.36	33.78	33.75	33.36	32.81	32.47	32.47	32.81
14	33.82	36.00	33.86	33.99	33.47	33.78	33.66	33.36	32.82	32.47	32.46	32.83
15	33.91	36.05	33.87	33.97	33.56	33.78	32.88	33.34	32.81	32.45	32.48	32.84

1--Continued.

Mean daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	33.95	36.10	33.91	34.00	33.63	33.77	32.22	33.33	32.79	32.46	32.49	32.87
17	33.98	36.13	33.91	34.16	33.68	33.77	32.22	33.30	32.78	32.47	32.51	32.88
18	34.07	36.19	33.90	34.20	33.71	33.78	32.25	33.28	32.76	32.46	32.53	32.87
19	34.12	36.22	33.96	34.16	33.71	33.78	32.46	33.28	32.73	32.46	32.54	32.88
20	34.21	36.09	33.99	34.12	33.70	33.78	32.69	33.27	32.73	32.46	32.52	32.89
21	34.29	34.44	34.00	34.11	33.74	33.78	32.93	33.26	32.72	32.46	32.55	32.89
22	34.36	33.54	33.97	34.10	33.74	33.78	33.11	33.23	32.68	32.45	32.59	32.90
23	34.43	33.60	33.95	34.11	33.75	33.78	33.24	33.10	32.67	32.45	32.57	32.94
24	34.51	33.69	33.98	34.11	33.77	33.78	33.30	33.13	32.67	32.45	32.56	32.99
25	34.58	33.71	33.99	34.07	33.77	33.79	33.34	33.17	32.66	32.45	32.55	32.99
26	34.65	33.79	34.00	34.03	33.77	33.80	33.38	33.17	32.63	32.45	32.61	32.97
27	34.71	33.81	34.02	34.02	33.78	33.80	33.40	33.16	32.60	32.47	32.60	32.79
28	34.76	33.83	34.02	34.02	33.78	33.79	33.41	32.92	32.58	32.46	32.62	33.03
29	34.85		34.00	34.00	33.79	33.80	33.42	32.46	32.58	32.45	32.62	33.02
30	34.97		33.99	33.95	33.79	33.01	33.43	32.66	32.60	32.44	32.63	33.04
31	35.03		33.97		33.78		33.43	32.77		32.43		33.04

Nash County

1. Alston well. About 0.5 mile north of Tar River, 100 yards east of State Highway 58, and 8 miles south of Nashville. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	1.95	Apr. 8	7.79	July 9	7.70	Oct. 8	6.76
15	3.01	16	8.03	16	6.87	15	7.73
22	4.53	23	8.45	23	7.09	22	8.57
29	5.75	30	8.45	30	7.84	29	9.09
Feb. 5	5.67	May 7	8.92	Aug. 6	7.20	Nov. 5	4.40
12	6.74	14	7.41	13	7.97	12	6.46
19	6.38	21	7.87	21	7.92	19	7.63
26	4.26	28	8.35	28	6.91	26	8.17
Mar. 5	5.06	June 4	8.72	Sept. 3	2.12	Dec. 3	8.80
12	6.67	11	9.48	11	4.09	11	9.15
19	6.67	18	9.74	17	5.20	18	8.99
26	7.35	25	9.49	24	8.20	24	9.00
Apr. 2	7.35	July 2	7.70	Oct. 1	5.13		

Northampton County

40. Mrs. R. L. Gattis. At Conway, about 0.25 mile west of State Highway 35, and 100 feet south of U. S. Highway 158, next to side porch of house. Records available: 1946-48. No measurements made in 1949.

60. Seaboard Air Line Railroad Co. At Potecasi. Drilled well, diameter  $4\frac{1}{2}$  inches, depth 145 feet. No screen. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Feb. 1	+1.77	Mar. 30	+1.36	July 21	1.56
24	+1.72	May 30	+1.64		

Orange County

1. McCauley well. At Chapel Hill, on west side of Chi Psi fraternity house on Cameron St. Records available: 1938-49.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	41.16	Apr. 11	40.19	July 4	40.48	Sept. 26	41.73
17	40.95	18	40.16	11	40.59	Oct. 3	41.80
24	40.85	25	40.31	18	40.77	10	41.85
31	40.72	May 2	40.22	25	40.89	17	41.95
Feb. 7	40.62	9	40.18	Aug. 8	41.20	24	42.05
14	40.57	16	40.08	15	41.37	31	41.99
21	40.52	30	40.03	22	41.48	Nov. 21	41.70
28	40.29	June 6	39.99	29	41.46	28	41.80
Mar. 14	40.29	13	40.12	Sept. 5	41.50	Dec. 5	41.87
21	40.29	20	40.22	12	41.59	12	41.96
28	40.18	27	40.35	19	41.58	19	41.95
Apr. 4	40.19						

Pasquotank County

31T. 3 miles west of Elizabeth City and 1,000 feet north of city well fields. Records available: 1936-49.

Feb. 1	0.59	May 30	3.03	Sept. 21	1.26	Nov. 29	1.39
24	.65	July 21	1.72	Nov. 1	.05	Dec. 29	.67
Mar. 30	1.28	Sept. 1	.58				

33T. 3 miles west of Elizabeth City, in city well field, about 20 feet west of pumphouse. Records available: 1938-49.

Feb. 1	2.82	May 30	6.78	Sept. 1	3.55	Nov. 29	6.64
24	2.90	July 21	4.18	21	4.33	Dec. 30	6.38
Mar. 30	3.01						

200. City of Elizabeth City. At water plant, 150 feet east of treatment plant. Records available: 1946-49.

Feb. 1	31.30	May 30	27.62	Sept. 1	30.48	Nov. 29	27.38
24	22.00	July 21	28.66	21	28.98	Dec. 29	17.18
Mar. 30	27.32						

Perquimans County

2. Naval Auxiliary Air Station well 2. In Harvey Point. Records available: 1944-49. Feb. 1, 5.91; Feb. 24, 3.07; Mar. 30, 3.42; May 30, 5.69.

Randolph County

20. Dr. Bush. At Archdale, 100 feet east of paved road to High Point, and 480 feet north of State Highway 62. Records available: 1935-49.

Jan. 28	22.35	Apr. 25	21.12	July 2	21.09	Nov. 25	21.84
Feb. 26	21.65	May 27	20.64	Oct. 29	22.21	Dec. 28	22.29
Mar. 28	21.56						

25. J. W. White. 1 mile southwest of Trinity and 120 feet southeast of State Highway 62. Records available: 1935-49.

Jan. 28	28.52	Apr. 25	24.69	July 26	26.00	Oct. 29	26.85
Feb. 26	24.55	May 27	24.22	Aug. 30	25.08	Dec. 28	27.75
Mar. 28	24.57	July 2	25.48	Sept. 23	25.90		

Robeson County

21. Town of Lumberton. Behind water plant, on river bank. Records available: 1948. No measurements made in 1949.

Surry County

1. A. D. Terrell. 4 miles south of Dodson, 1.8 miles east of Fairview, about 0.5 mile north of State Highway 268, and 50 feet west of county road. Records available: 1938-47, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	41.98	Apr. 17	42.02	June 25	40.23	Sept. 28	39.13
19	42.15	25	41.89	July 7	39.86	Oct. 2	39.20
29	42.27	May 7	41.71	18	39.59	14	39.16
Feb. 1	42.33	11	41.47	25	39.49	28	39.16
13	42.47	18	41.38	Aug. 8	39.31	Nov. 7	39.22
27	42.52	22	41.44	15	39.21	21	39.25
Mar. 9	42.52	June 3	40.54	22	39.19	29	39.36
20	42.41	12	40.64	31	39.12	Dec. 10	39.57
25	42.35	17	39.26	Sept. 7	39.10	18	39.65
Apr. 4	42.26	19	40.19	17	39.11	28	39.74

Transylvania County

1. Baldwin well. At Blantyre. Records available: 1935-49.

Mean daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.13	30.79	29.86	29.01	28.53	28.02	28.61	29.27	29.25	28.74	29.14	29.12
2	32.08	30.76	29.80	29.01	28.51	28.02	28.64	29.26	29.26	28.74	29.18	29.14
3	32.06	30.70	29.79	28.99	28.52	28.01	28.70	29.27	29.26	28.73	29.19	29.18
4	32.02	30.66	29.74	28.99	28.49	27.99	28.75	29.28	29.24	28.71	29.21	29.16
5	31.78	30.62	29.70	28.95	28.46	27.98	28.73	29.28	29.21	28.70	29.23	29.16
6	31.74	30.59	29.67	28.88	28.43	27.98	28.75	29.28	29.20	28.69	29.28	29.16
7	31.73	30.55	29.65	28.92	28.39	27.97	28.80	29.27	29.15	28.70	29.29	29.13
8	31.72	30.52	29.61	28.92	28.38	28.01	28.84	29.24	29.12	28.73	29.28	29.19
9	31.71	30.49	29.59	28.93	28.38	28.03	28.88	29.24	29.10	28.75	29.29	29.20
10	31.69	30.45	29.56	28.93	28.34	28.08	28.91	29.24	29.09	28.76	29.27	29.02
11	31.65	30.43	29.52	28.88	28.33	28.08	28.93	29.24	29.08	28.77	29.26	29.23
12	31.60	30.41	29.49	28.36	28.34	28.08	28.96	29.24	29.07	28.77	29.25	29.23
13	31.56	30.37	29.46	28.34	28.34	28.08	28.97	29.24	29.05	28.78	29.24	29.24
14	31.52	30.33	29.43	28.32	28.39	28.10	28.98	29.23	29.01	28.83	29.21	29.24
15	31.49	30.23	29.41	28.30	28.39	28.10	29.03	29.23	28.96	28.84	29.20	29.26
16	31.43	30.24	29.39	28.78	28.37	28.10	29.08	29.23	28.93	28.87	29.19	29.27
17	31.40	30.24	29.35	28.77	28.37	28.12	29.20	29.22	28.90	28.99	29.18	29.28
18	31.36	30.22	29.30	28.76	28.30	28.10	29.15	29.20	28.89	28.92	29.17	29.31
19	31.31	30.15	29.33	28.77	28.22	28.21	29.19	29.21	28.85	28.95	29.16	29.33
20	31.29	30.09	29.31	28.77	28.20	28.25	29.22	29.23	28.83	28.97	29.15	29.35
21	31.26	30.08	29.30	28.75	28.14	28.27	29.24	29.26	28.82	28.99	29.15	29.35
22	31.20	30.03	29.22	28.71	28.12	28.27	29.28	29.25	28.79	29.02	29.18	29.35
23	31.16	30.03	29.18	28.70	28.12	28.30	29.30	29.27	28.74	29.07	29.17	29.37
24	31.14	30.01	29.18	28.65	28.10	28.31	29.32	29.28	28.75	29.06	29.14	29.47
25	31.09	29.96	29.18	28.67	28.08	28.43	29.32	29.30	28.76	29.09	29.07	29.51
26	31.03	29.94	29.16	28.65	28.06	28.43	29.31	29.31	28.76	29.12	29.07	29.48
27	30.99	29.91	29.11	28.62	28.06	28.47	29.32	29.31	28.72	29.16	29.08	29.46
28	30.92	29.84	29.10	28.60	28.05	28.49	29.31	29.25	28.66	29.18	29.08	29.47
29	30.89		29.09	28.60	28.05	28.43	29.30	29.24	28.64	29.18	29.08	29.51
30	30.86		29.08	28.55	28.04	28.60	29.29	29.24	28.64	29.18	29.08	29.54
31	30.82		29.04		28.02		29.28	29.24		29.01		29.56

Wake County

1. Fishdam well. 1 mile downstream from bridge across Neuse River on U. S. Highway 15, and about 2 miles west of Northside, on left bank of river. Records available: 1935-49.

(Correction of -3.59 feet applied to measurements for 1949, this correction probably being applicable in all years subsequent to 1939.)



1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	3.84	Apr. 10	3.99	July 15	9.00	Oct. 15	8.02
12	4.23	16	3.81	24	4.68	24	8.84
22	4.19	23	4.50	29	6.10	31	2.84
29	3.80	29	4.95	Aug. 6	6.96	Nov. 7	6.28
Feb. 4	3.80	May 7	4.53	12	7.21	12	6.26
12	3.58	14	3.88	20	7.83	19	6.27
19	3.58	21	4.73	27	7.77	26	6.78
27	3.69	June 4	6.68	Sept. 3	6.01	29	6.72
Mar. 5	3.71	11	7.73	10	6.26	Dec. 3	6.77
13	4.13	17	8.14	19	7.11	10	6.93
19	3.21	23	8.12	25	8.11	17	6.02
26	3.81	July 2	9.11	Oct. 2	7.62	23	5.47
Apr. 2	3.51	9	9.03	8	7.96		

2. Baptist parsonage. At Garner, about 300 feet south of Southern Railway tracks. Records available: 1947-49. Feb. 1, 24.90; July 5, 24.43; Sept. 1, 23.50.

Washington County

1. R. H. Lucas. About 1.5 miles west of Plymouth and 50 yards south of U. S. Highway 64. Records available: 1942-49.

Mean daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	12.39	.....	12.69	13.33	14.14	.....	.....	.....	.....	.....	.....
2	.....	.....	12.16	12.71	13.35	14.13	.....	.....	.....	13.70	.....	.....
3	11.61	.....	12.20	12.85	.....	14.18	.....	.....	.....	.....	.....	.....
4	11.66	.....	12.30	12.85	.....	14.23	.....	.....	.....	.....	.....	15.00
5	11.66	.....	12.31	12.66	.....	14.21	.....	.....	.....	.....	.....	.....
6	11.48	.....	12.34	12.50	.....	14.05	.....	.....	.....	.....	12.85	.....
7	11.33	.....	12.33	12.30	.....	14.03	.....	.....	.....	.....	.....	.....
8	11.42	12.60	12.21	12.28	.....	.....	.....	.....	.....	.....	.....	.....
9	11.52	12.56	12.20	12.40	.....	.....	.....	.....	.....	16.10	.....	.....
10	11.72	12.45	.....	12.54	.....	.....	.....	.....	.....	.....	.....	.....
11	11.92	12.29	.....	12.59	.....	.....	15.37	.....	13.65	.....	.....	14.30
12	12.05	12.22	.....	12.63	.....	14.32	.....	.....	.....	.....	13.30	.....
13	12.12	12.17	.....	12.41	.....	14.34	.....	.....	.....	.....	.....	.....
14	.....	12.19	.....	12.16	.....	14.39	.....	16.80	.....	.....	.....	.....
15	.....	12.22	.....	.....	13.29	14.47	.....	.....	.....	.....	.....	.....
16	.....	12.31	12.34	12.21	13.34	14.40	14.90	.....	.....	.....	.....	.....
17	.....	12.45	12.35	12.39	13.42	14.26	.....	.....	.....	.....	.....	.....
18	.....	12.55	12.33	12.47	13.43	14.12	.....	.....	.....	.....	.....	.....
19	.....	12.50	12.50	12.35	13.49	14.10	.....	.....	.....	.....	.....	.....
20	.....	12.44	12.56	.....	13.54	.....	.....	.....	.....	.....	.....	.....
21	.....	.....	12.58	.....	13.64	14.04	.....	16.28	.....	.....	.....	.....
22	.....	11.89	12.58	.....	13.73	.....	.....	.....	.....	.....	.....	.....
23	.....	.....	12.49	.....	13.79	.....	.....	.....	.....	14.40	.....	.....
24	.....	.....	12.50	.....	13.84	.....	.....	.....	.....	.....	.....	.....
25	.....	.....	12.52	.....	13.86	.....	.....	.....	.....	.....	.....	.....
26	.....	.....	12.53	13.15	13.89	.....	.....	.....	.....	.....	.....	.....
27	.....	.....	12.53	13.17	13.89	.....	.....	.....	.....	.....	15.40	.....
28	.....	.....	12.60	13.23	13.96	.....	.....	.....	.....	.....	.....	.....
29	.....	.....	12.68	13.30	14.03	.....	.....	13.77	.....	.....	.....	.....
30	.....	.....	12.69	13.32	14.09	12.47	.....	.....	.....	.....	.....	.....
31	.....	.....	12.70	.....	.....	.....	.....	.....	.....	.....	.....	.....

Wayne County

1. Borden Brick & Tile Co. Brick pit well. About 3.5 miles south of Goldsboro, 200 feet east of U. S. Highway 117 and Neuse River. Records available: 1935-49.

1--Continued.

Mean daily water level, from recorder charts

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	0.62	Mar. 19	1.56	May 28	2.20	July 30	2.70
7	.70	26	1.66	June 4	2.30	Aug. 6	2.72
15	.82	Apr. 2	1.70	11	2.50	13	2.90
22	1.02	9	1.76	18	2.60	20	2.60
29	1.20	16	1.88	26	2.84	27	2.02
Feb. 5	1.32	23	2.10	July 2	2.90	Sept. 3	1.30
12	1.44	30	2.04	9	2.98	10	.68
19	1.60	May 7	2.02	16	2.90	17	.76
26	1.44	21	2.16	23	2.60	24	1.10
Mar. 5	1.44						

Wilson County

122. M. P. Whitley. About 0.7 mile southeast of junction of U. S. Highways 58 and 264, 3 miles east of Wilson, about 100 yards southwest of U. S. Highway 58. Records available: 1947-49. Feb. 2, 16.35; Feb. 25, 12.92; Mar. 31, 14.78; Dec. 30, 15.30.

149. Town of Stantonsburg. In Stantonsburg, inside tool shed south-east of elevated water tank. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Feb. 2	19.75	Mar. 31	11.95	Dec. 30	20.09
25	19.58	July 22	19.95		

151. W. R. Rogers. 0.5 mile southwest of Stantonsburg, about 100 yards east of State Highway 222 and 200 yards southwest of Contentnea Creek, in mule lot, 30 feet north of barn. Records available: 1947-49.

Feb. 2	+4.72	July 22	+4.18	Dec. 30	+3.75
25	+4.14	Nov. 30	+4.3		

## **SOUTH CAROLINA**

By George F. Siple

### **PROGRAM OF WORK**

Observations of water levels and artesian pressures in wells throughout the State, begun in 1946, were continued during 1949 in cooperation with the South Carolina Research, Planning and Development Board.

Measurements in wells in Walterboro, Hartsville, and in well 3 in Sumter County were discontinued in 1949. One well in Richland County was added during the year to the number of wells observed regularly. It is the only well listed that is equipped with a recording gage. At the end of 1949 the program included 15 wells, in which 85 measurements were made.

### **FLUCTUATIONS OF WATER LEVELS**

All of the wells measured during 1949 were within the Coastal Plain province, underlain by gently dipping unconsolidated sands, clays, and marls, of Upper Cretaceous and Tertiary ages. These sediments crop out in a belt southwest-northeast across the lower two-thirds of the State and have a south, southeastern dip. The relationship between the water levels and precipitation is complicated by many factors, such as the amount of water already held in storage, the rate of artificial and natural discharge, the evaporation and transpiration rate, the extent and location of the intake or recharge area, the amount of influent surface water being added to storage and the rate of pumping from wells. Correlation of precipitation in the recharge area with piezometric surfaces appear to be closer in summer than in the spring or winter. This seems to suggest that during the summer when evaporation and transpiration are high, the aquifer in the recharge area is not full and therefore responds quickly to rainfall. The fluctuations of the water level in the recharge area are transmitted down dip and are evident in artesian wells. In the spring and winter when evaporation and transpiration are low, the aquifer in the recharge area is full and rejects additional water from rainfall and thus does not reflect precipitation changes in fluctuation of the piezometric surface.

Wells designated Allendale 1, Horry 1 and 2, and Sumter 6 are all flowing wells. The figures in the table represent a piezometric surface, i.e. feet above land surface.

The average annual precipitation for the entire State for 1949 was within a close range of normal--48.72 inches or an excess of 0.86 inch. The wettest month was August which had a rainfall of 9.94 inches or an excess of 4.17 inches. There were no wide variations in temperature departures, the average yearly temperature being  $64.3^{\circ}$  or  $1.1^{\circ}$  above normal. The winter of 1948-49 was the third warmest since 1887, the beginning of official records. April was cooler and wetter than normal. Temperatures were somewhat below normal in June and rainfall was about 10 percent below normal, although amounts above normal occurred in the coastal and adjacent counties. The August rainfall of 9.94 inches was exceeded only in two previous years. Rainfall for September averaged slightly below normal. November was cool and drier than normal. December was mild and dry.

Artesian conditions exist in more than two-thirds of the Coastal Plain. The Tuscaloosa, Black Creek, Peedee, and Barnwell formations are the source of water for most of the drilled wells in the Coastal Plain. The greatest concentration of hard water used for municipal supply is in the southern triangle of the State, from Barnwell, Orangeburg, and Berkeley Counties southward. A progress report on ground-water investigations in South Carolina, by G. E. Siple, was published in 1947 as Bulletin No. 15 by the Research, Planning and Development Board.

An observation-well program in the Tiger River area was carried on from 1932 through 1942 in cooperation with the U. S. Department of Agriculture, and from 1939 to 1943 in the Savannah area in cooperation with the Georgia State Division of Conservation.

#### WELL-NUMBERING SYSTEM

Observation wells in South Carolina are listed alphabetically by counties and numerically within each county.

## WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Allendale County

1. Mr. Easton. At Fairfax, 0.2 mile southeast of railroad station on State Highway 28. Unused drilled well, diameter 8 inches, depth 660 feet. Records available: 1946-49. Feb. 24, +38.3; Mar. 30, +38.3; July 29, +37.0; Sept. 30, +37.6; Dec. 17, +37.6.

Barnwell County

1. Town of Barnwell. On town property 30 feet northeast of elevated tank. Unused drilled well, diameter 6 inches, depth 145 feet. Records available: 1948-49. Sept. 30, 43.24; Dec. 15, 39.24.

Berkeley County

1. Santee River Hardwood Co. In St. Stephens. Unused drilled well, diameter 6 inches, depth 900 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 24	15.80	Apr. 30	15.80	July 30	15.96	Nov. 3	15.80
Mar. 31	15.67	June 14	15.69	Sept. 29	15.70	Dec. 8	16.04

Colleton County

1. City of Walterboro. Unused drilled well at airbase. Records available: 1948. Measurements discontinued.

Darlington County

1. City of Hartsville. In Hartsville, on State Highway 15A, across street from waterworks. Records available: 1947-48. Measurements discontinued.

Dorchester County

1. Town of Summerville. On Main St., on town lot 15 feet west of town hall. Unused drilled well, diameter 8 inches, depth 925 feet. Records available: 1948-49.

Feb. 24	26.30	Apr. 30	28.22	July 30	28.02	Nov. 3	23.52
Mar. 31	27.16	June 14	27.02	Sept. 29	25.80	Dec. 8	22.58

Horry County

1. St. Paul's Baptist Church. 1 mile north of Ingram Mill. Used drilled well, diameter 2 inches, depth about 250 feet. Records available: 1947-49.

Jan. 14	+10.1	Mar. 31	+10.4	June 15	+10.3	Dec. 8	+9.5
Feb. 25	+10.3	Apr. 30	+10.4	Nov. 4	+10.1		

2. K. C. Ellsworth. 300 yards northwest of State Highway 17, 100 yards southwest of Yacht Basin Road, in Briarcliff Acres. 12 miles northeast of Myrtle Beach. Used drilled well, diameter 10 inches, depth 567 feet. Records available: 1947-49.

Jan. 13	+10.7	Mar. 31	+10.7	Sept. 28	+9.0	Dec. 8	+10.1
Feb. 25	+10.7	Apr. 30	+10.7	Nov. 6	+9.9		

3. City of Myrtle Beach. 75 feet northeast of new city well, 1 mile south of city on northwest side of U. S. Highway 17. Unused drilled well, diameter 8 inches, depth 87 feet. Records available: 1946-49.

Jan. 13	10.58	Mar. 31	12.98	June 15	14.65	Dec. 8	16.18
Feb. 25	11.69	Apr. 30	13.41	Sept. 29	15.34		

Orangeburg County

1. Town of North. On city lot under elevated tank. Unused drilled well, diameter 10 inches, depth 125 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	34.30	Mar. 30	33.90	June 9	35.29	Sept. 30	35.44
Feb. 24	34.25	Apr. 29	35.04	July 29	35.81	Nov. 3	35.43

Richland County

1. Shakespeare Manufacturing Co. 6 miles northeast of Columbia on old Two-Notch Rd. Unused drilled well, diameter 6 inches, depth 233 feet, ending in clay of Tuscaloosa age. Records available: 1949. June 1, 75.85; Oct. 13, 75.52; Nov. 13, 75.50; Dec. 1, 75.81.

Sumter County

1. Poinsett State Park. 1.6 miles south and 1.3 miles east of Wedge-field. Unused bored well, diameter 6 inches, depth 18.4 feet. Records available: 1943-49. Jan. 14, 9.11; Apr. 27, 11.18; May 30, 10.81; June 15, 11.58; July 30, 13.24.

2. City of Sumter. 150 feet south of entrance to waterworks. Unused jetted well, diameter 24 inches, depth 50 feet. Records available: 1946-49. Jan. 14, 22.20; Feb. 23, 22.20; Apr. 30, 22.72; Oct. 7, 25.00; Nov. 11, 25.72; Dec. 10, 26.13.

3. Edward Lewis. 2 miles south of Sumter. Records available: 1947-48. Measurements discontinued.

4. City of Sumter. On city lot 30 feet northeast of pumphouse. Diameter 18 inches, depth 625 feet. Records available: 1947-49.

Jan. 14	35.97	Apr. 30	37.26	July 30	33.65	Dec. 10	34.72
Feb. 23	35.73	May 30	37.43	Oct. 7	35.82		

5. City of Sumter. On municipal lot, 2,000 feet northwest of pumphouse. Used well, diameter 18 inches, depth 625 feet. Records available: 1948-49. July 30, 32.83.

6. Beulah Methodist Church. 6.5 miles northeast of Sumter on State Highway 76. Drilled well, diameter 2 inches, depth about 250 feet. Records available: 1947-49. Apr. 30, 7.8; Sept. 3, 7.5; Dec. 10, 8.1.

7. City of Sumter. On municipal grounds, 600 feet west of pumphouse. Unused drilled well, diameter 24 inches, depth 65 feet. Records available: 1948-49. Apr. 30, 15.29; May 30, 14.32; July 30, 17.13; Oct. 7, 18.23; Dec. 10, 18.99.

## TENNESSEE

By E. M. Cushing

### PROGRAM OF WORK

The program of water-level measurements in wells in Memphis and Shelby County, which is being carried on as a part of the investigation of the ground-water resources of the Memphis area, was continued in 1949 in cooperation with the Memphis Light, Gas and Water Division. From July 1940 until July 1947, the ground-water studies in Tennessee were confined to the Memphis area and were carried on in cooperation with the Memphis Light, Gas and Water Division. In July 1947, additional funds were made available for a program to study the ground-water resources of Tennessee in cooperation with the Tennessee Department of Conservation, Division of Geology. As a result, a detailed investigation of the ground-water resources of west Tennessee was begun in July 1947. Seven wells in Carroll, Fayette, Henry, and Madison Counties were measured as a part of the investigation of the ground-water resources of west Tennessee. (See fig. 13 and 14.)

A total of 1,090 tape measurements was made in 38 wells. In the 19 wells equipped with recording gages, 161 tape measurements were made. Drilling on four test holes in west Tennessee was begun in March 1949 and was completed in October. Each of the test holes was cased for use as an observation well and these wells (T-1-F, T-2-F, T-1-M, and T-2-M) are now being measured periodically as a part of the observation-well program in west Tennessee. In October 1947, a reconnaissance survey of the ground-water resources of the 28 counties which lie in the Ridge and Valley area of the State was begun. As a part of this investigation, a new geologic map of the area will be compiled. In June 1949, drilling of a test hole was begun in central Tennessee in order to study the Knox dolomite as a possible water-bearing formation. The hole (in Williamson County) will be drilled from the land surface to a depth of 250 feet into the Knox dolomite. Water encountered above the Knox dolomite is to be cased off and the water-bearing zones of the dolomite are to be tested, acidized, and then retested

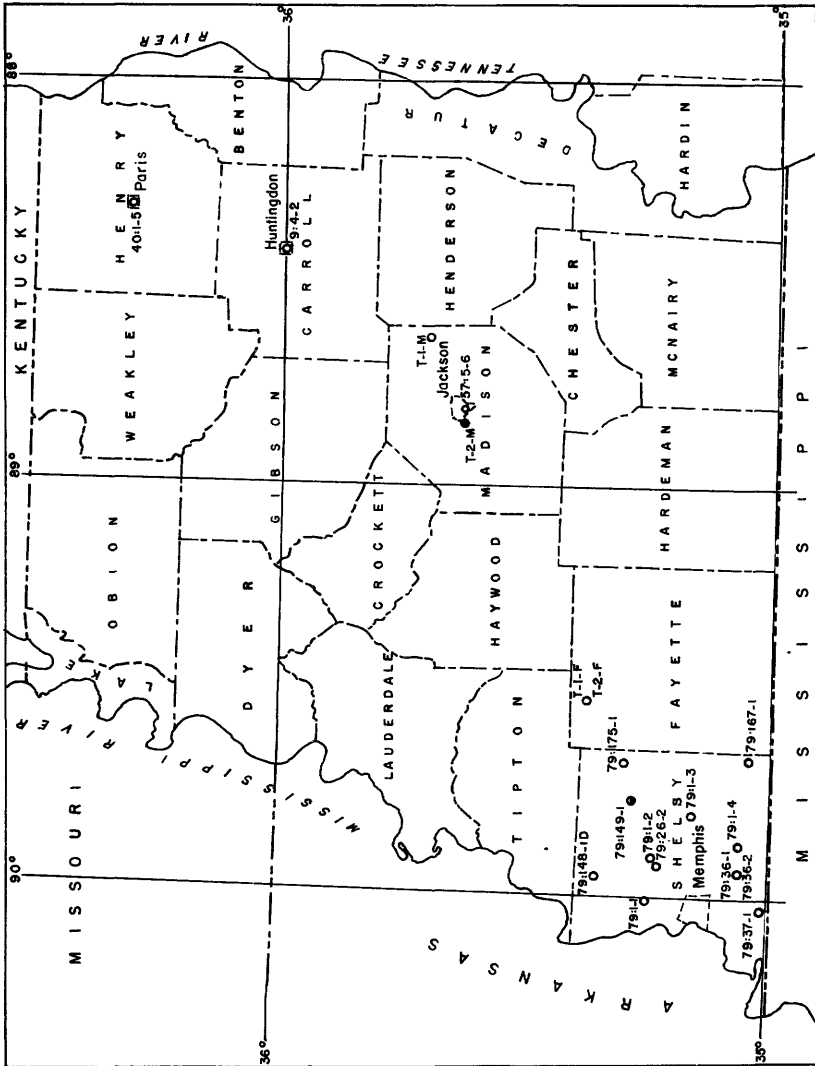


Figure 13.-Map of western part of Tennessee showing location of observation wells, 1949



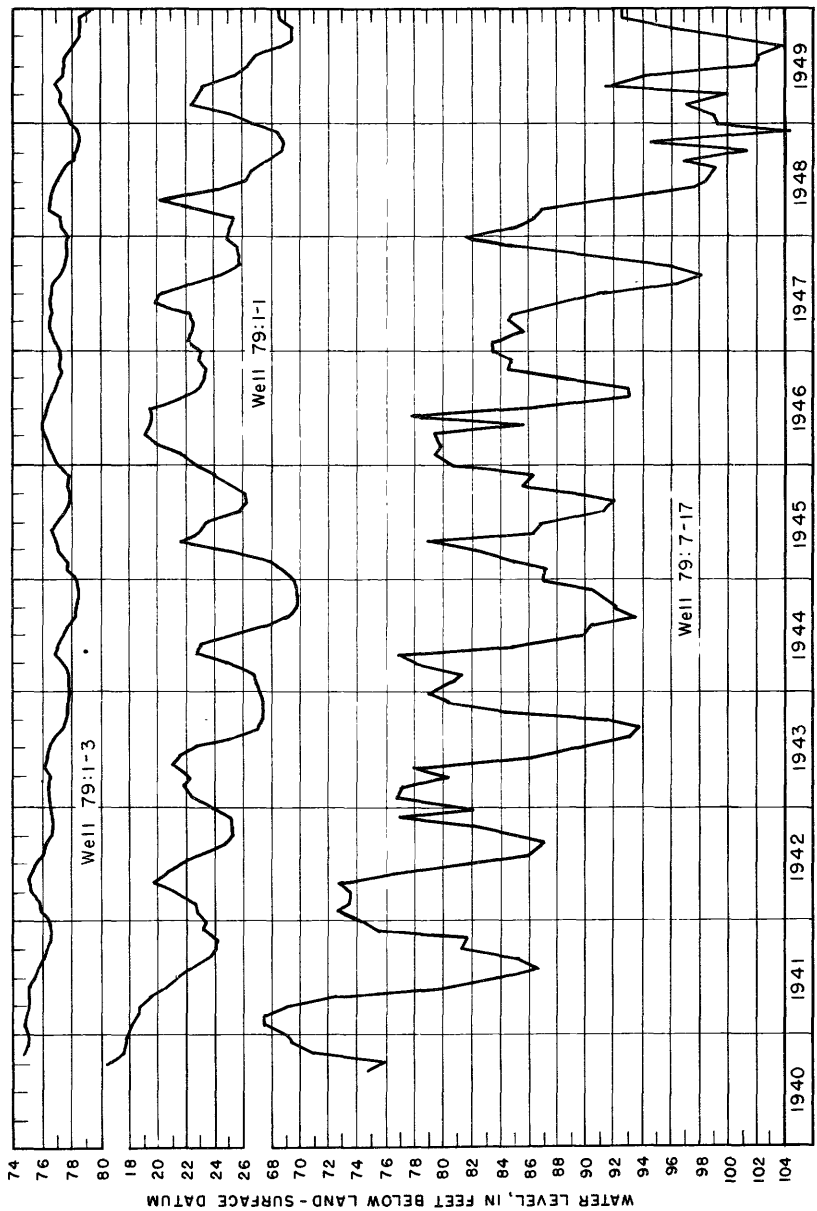


Figure 14.--Graphs showing fluctuations of water levels in three wells in the Memphis area.

to determine the possibilities of increasing the yield of Knox wells by acidizing. An observation well is to be completed in the Knox dolomite after all experimental work is finished.

In November 1949, a study of the geology and ground water of the Cleveland area, Bradley County, was begun. This investigation will include the detailed geologic mapping of a 15-minute area, records of wells, and data on fluctuations of water levels in wells and in the yields of springs.

#### PUMPAGE

In the Memphis area the average daily quantity of water pumped from the "500-foot" sand is estimated to be about 100 million gallons, while from the "1,400" sand it is estimated to be about 11 million gallons. These amounts are the same as the estimated average daily withdrawals in 1948.

#### FLUCTUATIONS OF WATER LEVELS

In general, water levels in wells screened in the "500-foot" and "1,400-foot" sands in the Memphis area declined slightly during 1949. Water levels in observation wells screened in the "500-foot" sand ranged from 5.1 feet higher to 7.3 feet lower than the lowest levels in 1948. The average lowering in Memphis, based upon measurements made in 18 wells, was about 0.7 foot. Water levels in four observation wells screened in the "1,400-foot" sand ranged from 5.7 feet higher to 2.8 feet lower than the lowest levels in 1948. The average lowering over the area, based upon measurements made in these four wells, was about 0.2 foot.

#### WELL-NUMBERING SYSTEM

According to the system devised in 1943 for numbering the observation wells in Tennessee, each number is made up of three items, the first and second of which are separated by a colon, and the second and third by a hyphen. The first item represents the county in which the well is situated; the second, the well field; and the third, the well itself. The first item necessitated numbering all the counties in the State in alphabetical order. To provide for the second item, the well fields were assigned arbitrary numbers. For example, the number 79:1-1 indicates county 79 (Shelby County); well field 1, the field made up of the test wells of the Memphis Light, Gas and Water Division; and well 1 in that field, as numbered by the owner.

## WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Carroll County

9:4-2. City of Huntingdon. About 10 feet west of waterworks building, and about 100 feet west of Fifth Ave. East. Drilled unused well, reported diameter 8 inches, reported depth 269 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
June 10, 1948	6.57	Feb. 10, 1949	1.85	Aug. 31	2.12
July 29	2.60	Apr. 14	1.67	Sept. 29	2.43
Oct. 1	2.80	June 2	1.94	Oct. 30	2.02
Nov. 3	2.47	30	2.04	Dec. 1	2.20
Dec. 8	2.34	July 29	2.55	30	2.34
30	2.17				

Fayette County

T-1-F. Tennessee Division of Geology and U. S. Geol. Survey. About 80 feet southwest of State Highway 59, 1.1 miles southeast of Braden, and 1.3 miles southeast of junction of State Highway 59 and U. S. Highway 70. Drilled observation well, diameter 6 to 4 inches, depth 1,025 feet. Records available: 1949.

Aug. 31	64.89	Oct. 31	65.46	Dec. 30	65.88
Sept. 30	65.48	Dec. 1	65.79		

T-2-F. Tennessee Division of Geology and U. S. Geol. Survey. About 50 feet northwest of T-1-F, about 80 feet southwest of State Highway 59, 1.1 miles southeast of Braden, and 1.3 miles southeast of junction of State Highway 59 and U. S. Highway 70. Drilled observation well, diameter 6 to 4 inches, depth 365 feet. Records available: 1949. Oct. 31, 38.78; Dec. 1, 38.97; Dec. 30, 38.83.

Henry County

40:1-5. City of Paris. About 35 feet southwest of new waterworks building, about 150 feet south of elevated tank, about 125 feet west of Fentress, and about 300 feet south of West Blythe. Drilled unused well, diameter 8 inches, depth 425 feet. Records available: 1945, 1947-49.

Nov. 16, 1945	108.26	Oct. 1, 1948	110.98	June 30, 1949	107.17
Nov. 20, 1947	109.35	Nov. 2	110.49	July 28	108.83
Mar. 31, 1948	110.57	Dec. 8	110.12	Aug. 31	110.59
Apr. 28	110.66	30	108.92	Sept. 29	111.05
June 10	111.64	Feb. 10, 1949	109.12	Oct. 30	108.45
July 2	112.42	Apr. 14	106.71	Nov. 30	109.50
28	112.28	June 2	107.79	Dec. 29	107.44

Madison County

57:5-6. City of Jackson. About 550 feet north of Magnolia St., and about 2,000 feet east of South Royal St. Drilled test well, diameter 2 inches, depth 149 feet. Nearby well pumping at time of each measurement. Records available: 1944-45, 1947-49.

Oct. 4, 1944	44.56	Oct. 1, 1948	56.85	June 30, 1949	52.28
Aug. 14, 1945	40.80	Nov. 4	46.72	July 29	56.90
Nov. 19, 1947	45.43	Dec. 8	48.10	Aug. 31	43.68
Apr. 1, 1948	42.30	Dec. 30	49.60	Sept. 30	43.79
26	52.56	Feb. 11, 1949	48.58	Oct. 30	50.29
June 9	56.65	Apr. 15	32.68	Dec. 1	54.75
July 2	55.51	June 2	25.12	30	54.58
30	39.17				

a Nearby well not pumping.

T-1-M. Tennessee Division of Geology and U. S. Geol. Survey. About 90 feet south of State Highway 20, 0.4 mile east of gravel road to Claybrook, and 7.1 miles east of junction of State Highway 20 and U. S. Highway 70. Drilled observation well, diameter 6 to 4 inches, depth 659 feet. Records available: 1949.

T-1-M--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 13	125.93	July 29	126.14	Sept. 30	126.57	Dec. 1	126.38
22	125.82	Aug. 31	126.29	Oct. 31	126.30	30	126.20
30	125.95						

T-2-M. Tennessee Division of Geology and U. S. Geol. Survey. In picnic area of West Tennessee Agricultural Experiment Station, about 85 feet west of pavilion, and about 0.6 mile north of U. S. Highway 70. Drilled observation well, diameter 6 to 4 inches, depth 780 feet. Records available: 1949. Oct 31, 50.0; Dec. 1, 50.0.

Shelby County

79:1-1. Memphis Light, Gas and Water Division. On O. K. Robertson Road, 2.2 miles north of Frayser. Records available: 1940-49.

## Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.85	22.40	21.34	21.97	23.46	25.19	26.53	26.85	28.79	29.43	28.40	28.35
2	24.78	22.22	21.24	21.89	23.51	25.21	.....	26.90	28.85	29.39	28.36	28.44
3	24.70	21.93	21.27	21.86	23.56	25.30	.....	27.05	28.88a	29.27	28.41	28.43
4	24.65	21.71	21.24	21.83	23.65	25.45a	26.57	27.20	28.90	.....	28.44	28.50
5	24.69	21.69	21.26	21.69	23.72	25.53	26.49	27.36	28.86	.....	28.56	28.50
6	24.78	21.67	21.52	21.49	.....	25.57	26.32	27.50	28.83	.....	28.57	28.36
7	24.85a	21.70	21.61	21.49	.....	25.62	26.23	27.58	28.74	.....	28.50	28.32
8	25.02	.....	21.65	21.60	.....	25.71	26.29	27.60	28.69	.....	28.40	28.35
9	25.08	21.66	21.67	21.77a	23.84	25.79	26.36	27.63	28.72	.....	28.36	28.36
10	25.05	21.85	22.12	21.95	23.99	25.91	26.41	27.74	28.74a	28.99	28.33	28.30
11	24.91	21.85	22.30	22.06	24.10	25.96a	26.40	27.82	28.76	28.98	28.32	28.19
12	24.71	21.93	22.56	22.06	24.19	25.97	.....	27.93	28.76	28.93	28.35	.....
13	24.54	21.97	22.66	22.02	24.29	25.98	.....	28.04	28.75	28.97	28.37	27.89
14	24.34	21.97	22.66	22.25	24.38	25.88	.....	28.15	28.77	29.03	28.37	27.87
15	24.21	21.99	22.68	22.69	24.43	25.78	.....	28.19	28.81	29.05	28.38	27.84
16	24.10	22.18	22.64	22.82	24.41	25.86	.....	28.22	28.86	29.04	28.46	27.91
17	24.00	22.25	22.52	22.78	24.42	25.97	.....	28.23	28.90	29.03	28.51	27.91
18	23.75	22.30	22.63	22.81	24.51	26.15a	26.44	28.27	28.91	28.95	28.55	27.71
19	23.75	22.29	22.68	22.79	24.63	26.18	26.40	28.34	28.90	28.90	28.54	27.55
20	23.74	22.32	22.66	22.72	24.74	26.12	.....	28.49	28.87	28.88	28.50	27.34
21	23.66	22.27	22.56	22.69	24.88	25.99	.....	28.54	28.86	28.84	28.60	27.10
22	23.64	22.10	22.40	22.75	25.10	25.94	.....	28.54	28.88	28.88	28.61	26.99
23	23.60	22.01	22.40	22.82	25.17	25.80	.....	28.54	29.03	28.88	.....	27.02
24	23.63	21.86	22.44	22.92	25.25	.....	.....	28.54	29.09	28.87	.....	26.99
25	23.66	21.73	22.47	22.94	25.31	.....a	26.54	28.55	29.12	28.81	.....	26.89
26	23.59	21.67	22.44	22.95	25.36	.....	26.44	28.56	29.13	28.77	.....	26.65
27	23.19	21.47	22.37	22.99	25.43a	26.15	26.49	28.55	29.12	28.73	.....	26.33
28	22.78	21.42	22.40	23.12	25.48	26.19	26.58	28.60	29.18	28.62a	28.12	26.15
29	22.79		22.27	23.27	25.52	26.29	26.66	28.63	29.31	28.55	28.21	25.96
30	22.74		22.21	23.38	25.33	26.41	26.75	28.64	29.40	28.48	28.28	25.87
31	22.59		22.03		25.25		26.82	28.69		28.43		25.86

a Tape measurement.

79:1-2. Memphis Light, Gas and Water Division. On Scheibler Road, 1.4 miles northwest of Bartlett. Records available: 1940-49.

## Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.84	76.19	75.79	75.78	75.34	76.33	77.06	77.21	78.31	78.95	78.61	78.19
2	76.72	76.18	75.76	75.78	75.34	76.33	77.08	77.26	78.34	78.94	78.58	78.25
3	76.60	76.06	75.78	75.85	75.37	76.39	77.10	77.37	78.34	78.94	78.61	78.24
4	76.50	76.01	75.74	75.85	75.39	76.43	77.10	77.43	78.33	78.94	78.60	78.31
5	76.40	75.99	75.69	75.80	75.44	76.46	77.07	77.48	78.30	78.90	78.64	78.31
6	76.36	75.95	75.75	75.72	75.47	76.51	77.00	77.51	78.29	78.63	78.64	78.20
7	76.34	75.95	75.80	75.79	75.49	76.53	76.92	77.58	78.25	78.66	78.56	78.19
8	76.24	75.93	75.75	75.84	75.49	76.58	76.87	77.58	78.21	78.73	78.53	78.22

79:1-2--Continued.

## Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
9	76.34	75.91	75.66	75.88	75.47	76.61	76.82	77.57	78.19	78.74	78.52	78.22
10	76.45	76.00	75.70	75.87	75.55	76.65	76.75	77.63	78.16	78.72	78.50	78.13
11	76.47	76.02	75.69	75.79	75.63	76.66	76.64	77.67	78.13	78.72	78.46	77.98
12	76.49	.....	75.69	75.74	75.70	76.66	76.55	77.70	78.12	78.74	78.45	77.92
13	76.49	.....	75.77	75.50	75.79	76.69	.....	77.72	78.15	78.74	78.43	77.96
14	76.47	.....	75.80	75.48	75.86	76.62	.....	77.74	78.16	78.75	78.40	77.90
15	76.37	75.78	75.92	75.62	75.91	76.52	.....	77.78	78.16	78.74	78.41	77.83
16	76.47	75.81	75.93	75.69	75.90	76.54	.....	77.81	78.20	78.72	78.45	77.79
17	76.46	75.84	75.87	75.68	75.94	76.54	.....	77.82	78.28a	78.72	78.47	77.82
18	76.33	75.80	75.98a	75.40	76.02	76.56	76.27	77.84	78.34	.....	78.47	77.89
19	76.38	75.78	76.03	75.46	76.06	76.65	76.26	77.87	78.42	78.79	78.46	77.92
20	76.37	75.83	76.02	75.45	76.06	76.72	76.25	78.00	78.49	78.79	78.36	77.92
21	76.28	75.81	75.97	75.42	76.07	76.74	76.33	78.06	78.53	78.76	78.48	77.86
22	76.27	75.79	75.89	75.39	76.16	76.76	76.44	78.10	78.55	78.79	78.48	77.90
23	76.22	75.79	75.95	75.42	76.21	76.80	76.56	78.14	78.66	78.79	78.34	77.92
24	76.20	75.74	75.90	75.42	76.20	76.82	76.64	78.19	78.70	78.75	78.23	77.94
25	76.21	75.76	75.89	75.42	76.23	76.92	76.73	78.24	78.72	78.72	78.20	77.87
26	76.19	75.77	75.83	75.42	76.30	76.97	76.82	78.25	78.74	78.74	78.18	77.76
27	76.11	75.70	75.76	75.38	76.37	76.99	76.91	78.25	78.74	78.74	78.06	77.71
28	76.15	75.78	75.72	75.35	76.41	76.97	76.98	78.23	78.79	78.71	78.02	77.69
29	76.22	.....	75.71	75.35	76.43	76.98	77.03	78.25	78.87	78.69	78.10	77.56
30	76.22	.....	75.67	75.36	76.35	77.01	77.10	78.26	78.93	78.64	78.15	77.46
31	76.16	.....	75.73	.....	76.31	.....	77.17	78.24	.....	78.62	.....	77.40

a Tape measurement.

79:1-3. Memphis Light, Gas and Water Division. On Macon Road, 4.5 miles north of Germantown. Records available: 1940-49.

## Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.64	77.06	77.21	76.72	76.84	77.34	77.13	77.55	78.07	78.43	78.40	78.53
2	77.50	77.06	77.19	76.70	76.94	.....	77.15	77.57	78.08	78.39	78.39	78.62
3	77.39	76.96	77.23	76.76	77.00	.....	77.13	77.66	78.04	78.37	78.45	78.58
4	77.41	76.85	77.17	76.81	77.01	.....	77.16	77.72	78.03	78.36	78.43	78.57
5	77.45	76.87	77.08	76.76	76.98	.....	77.20	77.76	78.02	78.32	78.52	79.53
6	77.44	76.86	77.20	76.68	76.96a	77.37	77.21	77.77	78.11	.....	78.52	78.47
7	77.41	76.94	77.29	76.76	76.91	77.38	77.23	77.77	78.11	.....	78.44	78.50
8	77.25	76.92	77.22	76.80	76.89	77.43	77.30	77.75	78.11	.....	78.36	78.55
9	77.27	76.97	77.08	76.85a	76.90	77.46	77.34	77.74	78.14	.....	78.35	78.55
10	77.32	77.15	77.21	76.84	.....	77.47	77.35	77.78	78.14a	78.33	78.33	78.43
11	77.32	77.17	77.23	76.84	.....	77.43	77.31	77.82	78.14	78.32	78.32	78.32
12	77.27	77.09	77.18	76.83	.....	77.38	77.32	77.80	78.11	78.36	78.33	78.40
13	77.23	77.06	77.17	76.67	.....	77.40	77.32	77.84	78.11	78.40	78.39	78.46
14	77.17	77.03	77.17	76.68	.....	77.35	77.32	77.79	78.14	78.42	78.40	78.44
15	77.16	77.03	77.25	76.81	.....	77.30	77.34	77.79	78.12	78.41	78.43	78.36
16	77.23	77.17	77.23	76.85a	77.13	77.31	77.35	77.82	78.13	78.38	78.49	78.27
17	77.30	77.27	77.07	76.76	77.18	77.27	77.35	77.80	78.13	78.45	78.53	78.14
18	77.22	77.23	77.14	76.76	77.26	77.15	77.41	77.80	78.18	78.47	78.53	78.00
19	77.42	77.11	77.22	76.84	77.28	77.12	77.43	77.80	78.23	78.45	78.48	78.00
20	77.42	77.15	77.19	76.83	77.19	77.06	77.42	77.90	78.25	78.46	78.44	78.00
21	77.27	77.15	77.07	76.78	77.11	76.98	77.46	77.95	78.25	78.41	78.60	77.95
22	77.22	77.11	76.98	76.74	77.28	76.97	77.46	77.96	78.21	78.46	78.60	78.02
23	77.18	77.12	77.01	76.78	77.32	76.95	77.54	77.96	78.30	78.46	78.45	78.12
24	77.16	.....	76.98	76.85	77.32	76.92	77.53	77.98	78.32	78.45	78.34	78.13
25	77.18	.....	77.00	76.89	77.36	76.98	77.53	77.99	78.30	78.40	78.43	78.04
26	77.15	.....	76.93	76.89	77.31	77.05	77.50	77.99	78.28	78.44	78.43	77.93
27	77.02	.....	76.78	76.83	77.34	77.07	77.54	77.95	78.27	78.44	78.36	77.99
28	77.00a	77.17	76.80	76.84	77.32	77.03	77.55	77.90	78.27	78.39	78.34	78.03
29	77.18	.....	76.81	76.84	77.33	77.03	77.54	77.96	78.36	78.37	78.46	78.01
30	77.18	.....	76.74	76.84	77.30	77.05	77.52	77.97	78.43	78.31	78.53	77.98
31	76.99	.....	76.65	.....	77.33	.....	77.52	77.98	.....	78.39	.....	77.97

a Tape measurement.

79:1-4. Memphis Light, Gas and Water Division. On Winchester Road, about 4 miles southwest of Germantown. Records available: 1940, 1946-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	82.78	82.61	82.50	82.25	82.11	82.48	82.57	82.77	83.06	83.27	83.21	83.22
2	82.68	82.63	82.49	82.25	82.23	82.49	82.58	82.77	83.09	83.25	83.19	83.30
3	82.54	82.56	82.51	82.29	82.30	82.44	82.56	82.83	83.07	83.23	83.23	83.30
4	82.53	82.39	82.49	82.33	82.32	82.42	82.58	82.89	83.04	83.19	83.23	83.29
5	82.62	82.41	82.40	82.31	82.32	82.41	82.60	82.92	83.23	82.91	83.27	83.30
6	82.71	82.41	82.39	82.22	82.30	82.46	82.59	82.94	83.05	83.00	83.30	83.25
7	82.72	82.40	82.48	82.23	82.26	82.42	82.58	82.95	83.06	83.07	83.28	83.10
8	82.71	82.40	82.47	82.24	82.20	82.46	82.61	82.93	83.08	83.15	83.20	83.21
9	82.68	82.39	82.35	82.27	82.18	82.50	82.65	82.88	83.11	83.16	83.15	83.23
10	82.68	82.51	82.37	82.27	82.25	82.52	82.66	82.89	83.12	83.15	.....	83.19
11	82.76	82.56	82.45	82.23	82.32	82.51	82.60	82.92	83.12	83.12	.....	83.06
12	82.75	82.53	82.46	82.17	82.37	82.47	82.59	82.91	83.12	83.13	.....	83.04
13	82.71	82.47	82.45	82.05	82.37	82.47	82.57	82.89	83.09	83.18	.....	83.17
14	82.69	82.44	82.46	82.10	82.37	82.39	82.57	82.87	83.10	83.21	83.10	83.23
15	82.68	82.35	82.55	82.27	82.37	82.36	82.59	83.90	83.10	83.21	83.12	83.24
16	82.61	82.46	82.55	82.33	82.36	82.43	82.58	82.92	83.10	83.19	83.16	83.24
17	82.67	82.58	82.45	82.32	82.38	82.47	82.60	82.92	83.08	83.22	83.22	83.18
18	82.66	82.58	82.42	82.27	82.39	82.50	82.64	82.92	83.10	83.25	82.24	83.06
19	82.78	82.53	82.50	82.34	82.39	82.50	82.67	82.89	83.14	83.24	83.24	83.06
20	82.83	82.52	82.50	82.34	82.36	82.49	82.67	82.94	83.16	83.21	83.13	83.06
21	82.80	82.53	82.29	82.31	82.26	82.47	82.68	83.01	83.16	83.19	83.25	83.01
22	82.71	82.52	.....	82.22	82.33	82.43	82.72	83.05	83.14	83.18	83.29	82.98
23	82.71	82.51	.....	82.21	82.39	82.42	82.76	83.05	83.16	83.23	83.26	83.16
24	82.64	82.47	.....	82.20	82.42	82.38	82.77	83.05	83.20	83.25	83.14	83.23
25	82.66	82.44	.....	82.24	82.46	82.42	82.78	83.05	83.21	.....	83.09	83.22
26	82.66	82.44	.....	82.25	82.44	82.50	82.76	83.05	83.19	.....	83.11	83.14
27	82.57	82.37	.....	82.21	82.43	82.53	82.78	83.00	83.19	.....	83.05	83.07
28	82.50	82.47	82.27	82.18	82.41	82.53	82.79	82.94	83.13	83.23	83.05	83.13
29	82.71	.....	82.34	82.16	82.39	82.53	82.77	82.96	83.19	83.21	83.08	83.14
30	82.72	.....	82.31	82.14	82.38	82.54	82.75	82.98	83.26	83.17	83.18	83.14
31	82.60	.....	82.19	.....	82.39	.....	82.76	82.99	.....	83.18	.....	83.12

a Tape measurement.

(Unless otherwise indicated, all the following wells are in Memphis.)

79:3-A. Memphis Light, Gas and Water Division. On southwest corner of intersection of Sycamore Ave. and Fifth St. Records available: 1936-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.1	45.6	43.8	47.3	50.9	54.6	60.5	60.0	62.3	....	56.7	56.7
2	48.0	45.6	43.9	47.3	50.4	55.2	60.8	60.0	62.4	....	57.0	56.9
3	47.6	45.6	43.9	46.9	50.7	55.9	60.8	60.5	62.4	60.24	57.4	57.0
4	48.2	45.7	44.0	46.2	51.4	56.3	60.1	61.0	62.4	....	57.6	56.9
5	48.6	45.8	44.2	45.9	52.0	56.3	58.9	61.4	61.8	....	57.8	56.5
6	48.9	45.6	44.3	45.8	52.6	55.9	58.4	61.6	61.1	60.0	57.6	56.0
7	49.0	45.1	44.2	46.1	53.0	56.3	58.9	61.6	60.8	60.3	56.9	56.2
8	49.1	44.9	44.0	46.6	53.0	57.0	59.5	61.2	61.1	60.5	56.6	56.5
9	49.0	45.1	44.1	46.8	52.5	57.6	59.8	60.9	61.5	60.6	....	56.8
10	48.5	45.3	44.5	46.8	52.6	58.0	59.8	61.3	61.6	60.2	....	56.9
11	48.2	45.3	45.0	46.2	52.7	58.2	59.5	61.8	61.6	60.1	....	56.8
12	48.0	45.4	....	46.0	52.8	58.2	59.6	62.3	61.1	60.5	....	56.4
13	47.9	45.4	....	46.0	52.9	57.5	60.0	62.7	61.4	60.7	....	56.0
14	47.8	44.9	45.5	46.9	53.0	57.2	60.2	62.7	61.7	60.8	56.70	55.9
15	47.8	44.6	45.7	47.7	53.0	57.5	60.4	62.3	....	60.7	56.7	55.9
16	47.7	44.8	45.8	47.8	52.4	58.0	60.4	62.1	....	60.4	57.0	55.8
17	47.3	45.0	46.0	47.6	52.8	58.4	60.4	62.4	....	59.7	57.3	55.7
18	46.8	45.2	46.5	47.0	53.6	58.6	59.7	62.7	....	59.3	57.5	55.3
19	47.0	45.2	46.6	46.6	54.4	58.5	59.6	63.0	60.94	59.5	57.5	54.7
20	47.2	45.1	46.5	46.9	55.0	57.7	59.8	63.2	61.2	59.8	57.4	54.4
21	47.3	44.6	45.9	47.2	55.3	57.4	60.2	63.2	61.5	60.0	57.1	54.7
22	47.3	44.2	45.6	47.5	55.4	57.5	60.6	62.4	61.8	60.1	56.9	55.2
23	47.1	44.2	45.8	48.0	55.2	57.9	60.7	62.0	62.1	60.0	56.7	55.4

79:3-A--Continued.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
24	46.4	44.1	46.2	48.2	55.0	58.4	60.7	62.0	62.2	59.6	56.7	55.4
25	46.3	44.1	46.6	48.3	55.1	58.9	59.9	62.1	62.1	59.1	56.5	54.9
26	46.3	44.0	46.8	48.7	55.0	58.9	59.4	62.2	a61.37	....	56.3	53.8
27	46.1	43.9	46.8	49.3	55.3	58.6	59.8	62.3	....	....	56.0	52.8
28	45.8	43.7	46.5	50.1	55.5	58.8	60.2	62.3	....	58.3	55.6	52.3
29	45.9	....	46.4	50.7	55.5	59.4	60.5	62.0	....	58.2	55.8	53.5
30	45.9	....	46.8	51.0	54.9	....	60.6	61.6	....	57.9	56.3	52.8
31	45.4	....	47.1	....	54.4	....	60.6	62.0	....	57.1	....	53.0

a Tape measurement.

79:5-193. Memphis Light, Gas and Water Division. About 100 feet north of Central Ave. and about 225 feet east of Tanglewood St. Records available: 1936-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	a95.80	95.8	....	....	101.7	104.2	104.3	105.3	103.4	101.2	100.4
2	....	96.0	96.0	....	a98.22	102.1	104.2	104.6	....	102.9	101.4	100.5
3	....	96.0	96.1	....	98.7	102.4	104.0	104.8	....	102.8	101.4	100.5
4	a95.39	95.8	96.1	a99.53	99.1	102.4	103.1	105.1	....	102.9	101.4	100.1
5	95.8	95.8	96.0	99.9	....	102.1	101.9	....	....	a102.29	101.3	99.9
6	96.2	95.6	95.9	100.1	....	102.1	....	....	....	....	101.1	99.8
7	96.2	95.3	95.8	100.3	....	102.4	101.4	....	a103.6	....	100.9	99.9
8	96.2	95.4	95.8	100.4	....	102.6	101.7	104.7	104.2	....	100.9	100.2
9	95.9	95.5	95.8	100.5	....	103.0	101.7	104.8	....	....	101.0	100.2
10	95.6	95.9	96.2	100.1	....	103.2	101.5	105.0	....	....	101.0	99.9
11	95.8	95.9	....	a99.74	100.3	103.2	100.8	105.4	104.2	....	101.0	99.6
12	96.2	95.8	....	....	100.5	103.0	100.7	105.4	....	a102.47	100.9	99.4
13	96.3	95.5	....	....	100.6	102.4	101.0	105.4	....	102.6	100.6	99.6
14	96.3	95.2	a99.06	....	100.6	102.5	101.1	105.3	a104.13	102.6	100.3	99.8
15	96.2	95.4	....	....	....	102.7	101.1	104.7	104.5	102.5	100.4	99.9
16	96.0	95.6	....	....	....	103.1	101.0	104.9	104.5	102.2	100.4	99.9
17	95.7	95.9	....	....	100.3	103.4	100.7	105.2	104.2	102.2	100.6	99.8
18	95.8	96.0	a99.82	a96.01	100.9	103.4	100.2	105.4	103.8	102.3	100.8	100.3
19	....	96.0	100.0	96.3	....	103.0	101.1	105.6	104.1	102.3	100.8	100.2
20	....	95.8	99.7	96.6	....	102.9	101.9	105.5	104.4	102.5	100.5	100.2
21	....	95.7	99.2	96.8	....	103.1	102.6	105.3	104.4	102.5	100.4	100.1
22	....	95.7	99.5	96.9	....	103.3	103.1	104.7	104.5	102.5	100.5	99.5
23	....	95.7	....	97.0	....	103.4	103.5	104.7	104.7	102.3	100.5	99.8
24	....	95.9	....	96.8	a101.58	103.4	103.5	104.8	104.7	102.1	100.5	99.8
25	a96.03	96.0	....	96.8	101.7	103.2	103.5	105.0	104.3	102.1	100.4	99.4
26	....	95.9	....	97.2	102.0	103.2	103.7	105.1	104.2	102.1	100.3	98.2
27	....	95.5	....	98.4	102.2	103.1	104.0	105.1	104.2	102.1	99.7	97.8
28	....	95.6	a99.30	98.8	102.2	103.3	104.4	104.8	104.3	102.0	99.3	97.8
29	....	....	99.6	....	101.8	103.5	104.7	104.7	104.5	101.8	99.8	....
30	....	....	100.2	....	....	103.9	104.7	104.7	103.8	101.6	100.2	....
31	....	....	100.2	....	101.4	....	104.5	104.9	....	101.3	....	....

a Tape measurement.

79:7-17. Memphis Light, Gas and Water Division. On North Parkway at end of North Garland St. Records available: 1940-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	99.5	97.4	96.1	....	87.8	....	102.6	97.1	100.1	96.2	89.7	91.6
2	99.1	97.5	95.8	....	89.1	....	102.5	98.9	99.7	94.6	90.8	91.8
3	a97.40	....	95.8	....	91.1	....	99.6	99.8	99.2	93.7	91.4	91.8
4	....	....	95.6	a85.54	92.1	....	95.3	100.8	96.7	93.9	91.4	90.8
5	....	....	95.7	86.2	93.3	....	94.9	100.6	94.2	94.0	91.2	89.7
6	95.7	....	95.6	86.1	94.0	a94.78	98.0	100.6	95.4	....	89.6	89.9
7	95.7	a94.20	95.4	87.7	94.1	97.2	....	97.3	97.0	....	89.4	90.3
8	94.7	95.2	95.2	88.3	91.6	97.9	....	96.1	97.8	....	90.0	91.1

79:7-17--Continued.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
9	95.0	96.6	95.3	88.7	91.7	98.5	....	98.5	97.8	....	90.6	91.2
10	94.4	96.7	96.2	87.4	91.5	98.7	....	103.0	97.0	a93.57	92.6	91.0
11	94.7	97.0	97.8	86.7	90.3	98.8	a94.56	104.0	94.7	95.1	91.2	89.5
12	94.7	97.2	98.2	86.7	91.2	94.9	98.7	103.9	95.3	96.0	91.8	88.6
13	94.8	96.5	97.6	87.2	....	93.8	99.2	103.9	96.8	96.4	90.4	89.2
14	95.3	95.1	a96.75	88.3	91.0	94.3	96.7	99.8	98.0	95.0	88.5	89.8
15	....	96.0	....	88.5	89.1	97.0	97.0	99.2	97.4	94.1	90.3	90.0
16	....	96.5	....	88.5	89.3	....	96.8	101.0	96.3	91.3	91.0	90.0
17	93.5	97.1	....	86.7	92.6	....	....	101.9	96.4	92.1	91.7	89.9
18	....	97.2	....	85.0	....	....	a90.9	....	....	92.0	92.2	88.7
19	....	97.2	....	86.2	....	....	96.4	102.9	95.8	93.8	92.2	88.4
20	....	96.4	....	86.5	....	a94.48	98.1	102.6	97.5	94.7	91.5	89.9
21	....	95.3	a96.60	86.0	....	97.3	98.6	97.9	97.9	94.7	90.6	92.6
22	....	96.3	97.8	86.2	94.0	97.7	99.7	98.0	97.9	....	90.8	91.5
23	....	96.6	98.2	89.8	93.4	98.8	100.1	98.8	98.1	....	90.9	91.4
24	a93.30	96.9	100.0	88.1	93.4	99.1	97.2	99.6	96.7	a90.56	90.9	90.8
25	96.2	96.6	100.8	87.2	93.6	99.0	97.8	100.0	....	90.8	89.9	89.2
26	95.7	96.4	100.8	89.3	94.3	95.7	99.4	100.2	95.8	91.6	90.0	86.6
27	97.1	95.4	99.7	89.8	....	96.2	100.2	100.0	96.8	92.6	88.9	85.4
28	97.6	95.9	a98.71	91.2	....	98.8	101.6	95.3	97.2	92.8	90.3	86.6
29	97.8	....	....	91.6	....	99.8	101.8	a93.72	96.5	93.0	90.8	87.6
30	97.0	....	....	91.4	93.8	101.9	101.3	98.2	95.7	90.2	91.4	88.2
31	97.1	....	....	....	93.9	....	98.9	99.4	....	88.2	....	88.3

a Tape measurement.

79:7-26. Memphis Light, Gas and Water Division. On grounds of North Parkway pumping station, about 125 feet east of North Dunlap St. and about 1,000 feet south of North Parkway. Records available: 1945-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	67.7	....	....	63.0	66.1	67.4	76.1	a75.66	78.9	74.1	73.9	74.1
2	67.6	....	....	62.9	67.8	67.6	76.2	76.2	78.8	73.8	73.8	74.2
3	68.4	....	....	62.0	67.0	67.6	76.4	76.3	78.6	74.2	73.8	74.2
4	69.1	....	....	61.7	66.3	67.4	73.5	76.2	76.2	74.4	73.7	74.4
5	69.5	....	....	61.9	66.6	67.4	74.8	76.4	75.3	74.4	73.8	74.3
6	....	....	....	62.1	66.8	67.5	75.0	76.5	77.2	74.3	73.8	74.2
7	....	a66.45	a67.05	61.9	66.9	67.7	75.3	75.9	77.4	74.4	73.6	74.3
8	....	67.1	a63.97	62.0	66.9	72.0	75.8	74.7	77.7	74.3	73.6	74.4
9	....	67.2	63.9	62.2	67.4	72.7	76.0	75.0	77.9	74.2	73.5	75.0
10	a72.0	67.4	64.1	62.2	....	....	76.1	76.1	77.9	74.2	73.6	74.1
11	72.0	67.4	64.2	61.5	....	....	76.0	77.1	77.5	74.0	73.6	74.1
12	72.0	67.3	64.2	61.6	....	....	76.0	77.7	77.1	74.0	73.7	74.3
13	71.9	67.4	64.2	61.8	....	a67.16	75.2	78.2	75.2	74.0	73.9	74.4
14	71.7	67.4	64.2	62.9	....	66.8	75.3	76.6	74.6	74.1	73.9	74.4
15	71.5	67.5	64.3	63.2	....	67.5	75.2	78.7	74.8	....	74.0	74.3
16	71.3	67.6	64.2	63.3	a65.16	67.9	74.8	79.2	74.8	....	74.0	74.1
17	71.3	67.6	63.8	62.3	65.2	68.0	74.7	79.2	74.6	a73.49	74.1	73.8
18	69.2	67.4	63.9	61.4	65.8	68.1	74.7	79.2	74.5	74.0	74.0	73.6
19	68.7	67.2	64.0	61.9	66.5	67.2	74.6	80.0	74.7	73.9	73.9	73.6
20	68.8	67.1	63.9	....	66.8	67.3	75.1	80.2	....	73.9	74.1	73.5
21	68.8	67.0	63.6	....	67.0	67.6	75.4	78.9	....	73.8	74.4	71.9
22	68.8	66.9	63.6	....	67.2	67.7	75.6	79.4	74.8	74.0	74.4	70.6
23	68.8	67.0	63.7	....	67.4	67.9	75.8	79.7	74.5	74.0	74.2	70.6
24	68.7	67.0	63.9	....	67.5	68.1	76.1	79.9	74.6	73.9	74.1	70.7
25	68.7	67.2	63.8	a64.0	67.6	68.4	76.2	80.0	74.6	73.8	74.2	70.5
26	68.9	67.1	63.7	65.5	67.6	68.6	76.6	80.2	74.5	73.7	74.2	69.7
27	68.9	66.9	63.7	68.1	67.8	68.7	....	80.2	74.4	73.8	74.1	69.1
28	68.3	66.8	63.7	68.9	67.8	72.8	....	80.3	74.5	73.9	73.9	69.1
29	68.3	....	63.5	69.4	67.9	75.2	....	80.5	74.8	74.0	74.1	69.3
30	68.1	....	63.6	69.5	67.8	75.5	....	80.5	74.9	74.0	74.1	....
31	67.8	....	62.9	....	67.7	....	....	78.8	....	74.0	....	....

a Tape measurement.



79:7-34. Memphis Light, Gas and Water Division. In lot between Leath and Dunlap Streets, about 250 feet north of North Parkway. Records available: 1944-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	93.7	90.1	87.0	95.9	94.2	102.3	115.5	111.6	115.2	110.4	103.1	106.9
2	90.4	90.3	86.3	93.7	97.4	103.5	115.3	113.2	115.0	107.5	104.6	107.0
3	92.7	90.3	87.8	89.7	100.9	104.3	.....	115.2	114.7	106.9	105.3	106.9
4	94.4	90.6	87.7	90.9	102.1	104.2	.....	115.6	108.6	106.9	105.3	104.4
5	94.3	90.4	87.7	90.9	103.3	101.8	105.8	115.0	104.2	107.6	104.6	103.1
6	92.2	87.3	....	90.9	104.1	103.2	110.1	114.8	110.1	108.3	100.5	102.4
7	92.3	88.3	86.9	92.9	104.0	105.3	111.4	112.0	111.9	109.1	103.0	103.5
8	92.2	89.6	87.8	93.3	101.1	107.2	112.0	110.9	113.1	109.1	103.0	104.9
9	90.9	89.6	87.8	93.3	100.3	109.1	111.9	113.3	113.7	108.8	104.2	104.9
10	89.9	88.1	89.0	90.4	100.1	109.9	108.9	116.1	113.1	107.5	104.2	104.3
11	90.3	88.6	91.5	91.6	99.4	109.9	a104.79	117.1	107.9	109.0	103.2	99.8
12	89.7	88.6	91.8	91.3	101.3	104.5	.....	118.6	112.7	109.8	102.4	101.2
13	90.3	86.2	89.5	94.5	101.3	a102.06	.....	118.3	114.7	110.0	101.8	101.9
14	90.4	85.9	91.0	94.6	100.3	104.6	.....	112.5	114.7	109.9	100.8	102.7
15	90.0	87.1	91.0	94.3	99.9	108.3	.....	114.1	113.0	108.5	106.3	102.9
16	89.1	87.6	92.1	93.7	99.0	109.5	.....	115.9	108.8	106.3	107.2	102.8
17	89.7	88.8	92.1	90.3	100.6	109.9	.....	116.3	108.7	105.8	107.2	102.5
18	91.6	88.6	92.3	a87.99	102.2	109.8	a105.0	116.8	108.6	106.6	107.4	98.9
19	....	88.4	92.2	....	102.8	107.1	111.9	116.8	114.0	107.5	107.4	101.0
20	....	85.7	89.8	92.5	103.3	106.9	113.5	115.3	114.3	108.2	105.1	103.8
21	92.8	85.7	89.4	92.5	103.7	107.3	114.4	106.4	113.9	108.2	104.5	105.3
22	92.1	87.2	90.6	92.6	103.3	107.8	114.7	109.7	113.7	108.2	104.7	105.8
23	89.5	87.6	91.1	94.8	100.4	111.2	114.6	110.6	114.3	106.3	104.8	105.2
24	89.6	87.3	91.7	94.8	101.4	112.0	110.8	111.3	114.1	104.7	104.8	101.8
25	88.8	87.2	92.7	93.8	101.3	112.0	110.1	112.0	109.7	104.3	103.5	98.5
26	87.8	87.1	92.6	93.7	101.4	114.0	114.0	112.3	111.6	105.8	103.6	94.8
27	88.2	84.4	89.5	97.2	103.3	109.5	114.3	112.2	112.7	107.3	98.2	95.9
28	90.1	86.5	90.7	98.8	103.2	112.1	114.7	111.0	113.5	107.3	102.9	101.5
29	90.1		92.1	99.5	102.0	113.8	114.7	111.2	113.5	106.4	105.8	99.0
30	88.2		92.5	99.4	98.6	115.0	114.0	113.6	112.0	100.5	106.5	99.7
31	89.6		95.7		99.8		111.2	114.8		98.4		99.5

a Tape measurement.

79:8-56. Memphis Light, Gas and Water Division. On grounds of Sheahan pumping station, about 50 feet east of Normal St. and about 0.5 mile south of Central Ave. Records available: 1945-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	87.1	100.7	84.3	85.6	97.2	101.4	101.3	101.3	103.4	105.4	102.6	103.6
2	86.4	100.7	83.7	85.6	97.4	101.6	101.2	101.3	103.4	105.4	102.5	103.9
3	86.3	99.8	85.5	85.6	97.6	101.7	100.9	101.3	103.3	105.2	102.5	103.9
4	a91.45	99.8	85.7	94.0	98.1	101.7	100.4	101.2	103.0	105.0	102.6	104.1
5	....	99.7	85.8	95.3	98.3	101.6	99.9	101.4	102.6	104.9	102.9	104.0
6	....	99.5	85.8	95.9	98.1	101.7	99.5	101.6	103.7	104.8	102.9	104.0
7	100.2	99.5	83.3	96.3	98.2	101.7	99.5	101.6	104.4	104.9	103.0	104.0
8	100.4	98.4	82.6	97.1	97.8	100.4	99.7	101.6	104.8	104.9	103.0	104.2
9	100.6	98.3	82.1	97.3	98.0	101.2	99.8	101.6	104.8	104.9	102.6	104.2
10	100.6	98.6	82.0	95.5	98.0	101.3	99.8	102.1	104.7	104.9	102.5	104.2
11	101.0	99.2	85.0	95.6	98.0	100.7	99.2	102.6	104.4	105.0	102.3	103.7
12	101.0	99.2	85.3	95.6	97.8	100.7	98.9	103.0	104.3	105.2	102.5	103.8
13	100.8	99.2	82.6	95.6	97.5	100.4	98.6	103.3	104.5	105.2	102.5	104.0
14	100.6	99.4	82.4	96.5	97.6	101.4	98.3	103.6	104.6	105.2	102.4	104.2
15	100.4	93.5	84.9	95.9	97.3	101.4	98.1	103.8	104.8	105.2	102.5	104.2
16	100.5	92.2	85.4	96.0	97.4	101.0	97.9	104.3	104.8	105.2	102.4	104.2
17	100.5	91.9	85.4	95.6	97.1	100.9	97.8	104.4	104.7	105.2	102.5	104.0
18	100.5	94.8	85.7	94.9	98.3	101.1	97.9	104.6	104.8	105.3	102.7	103.6
19	100.8	94.9	85.8	95.2	98.6	101.1	98.2	104.8	104.6	105.3	102.6	103.6
20	100.3	95.0	83.1	95.3	98.8	101.2	98.7	104.9	104.6	105.3	102.9	103.5
21	100.1	94.8	84.5	95.4	99.1	101.1	99.1	105.0	104.5	104.2	103.0	103.4

79:8-56--Continued.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
22	100.1	94.7	90.4	95.4	99.4	101.2	99.4	104.9	104.3	104.3	102.9	103.6
23	99.9	92.8	92.0	95.6	100.4	101.2	99.8	104.8	104.6	104.7	102.9	103.9
24	99.5	92.2	92.5	95.9	101.0	101.4	100.2	105.0	104.6	104.9	102.7	103.9
25	99.5	86.3	92.8	96.0	101.4	101.6	100.4	105.0	104.7	104.7	102.9	103.6
26	99.6	87.7	88.1	94.4	101.4	101.1	100.4	103.4	104.6	104.7	102.9	102.0
27	99.7	88.2	84.0	96.4	101.6	101.3	100.8	103.2	104.5	104.8	102.8	101.7
28	100.0	88.3	84.9	96.9	101.7	101.2	100.9	103.1	104.9	104.8	102.9	102.0
29	100.4		85.2	97.1	101.7	101.1	100.9	103.2	105.2	103.4	103.1	102.2
30	100.4		85.2	97.2	101.5	101.2	101.1	103.2	105.3	102.9	103.5	102.4
31	100.6		85.5		101.5		101.3	103.2		102.5		102.4

a Tape measurement.

79:8-73. Memphis Light, Gas and Water Division. About 300 feet north of Central Ave. and about 800 feet east of Normal St. Records available: 1946-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	102.2	134.9	137.9	136.2	116.7	121.6	122.0	122.3	123.5	123.4	120.1	119.4
2	101.4	134.7	137.9	.....	116.8	121.6	122.1	122.1	123.6	123.1	120.0	119.6
3	99.1	134.7	138.0	.....	116.9	121.8	122.2	122.1	123.4	123.1	120.0	119.6
4	121.1	134.2	137.6	118.72	117.0	121.9	121.9	122.1	123.2	123.0	120.0	119.4
5	125.4	134.2	137.2	120.5	117.7	121.7	121.5	122.3	123.0	122.61	120.0	119.3
6	126.2	134.1	137.8	120.6	117.9	.....	121.4	122.4	122.9	.....	120.0	119.2
7	126.2	134.1	137.9	120.6	118.2	121.63	121.3	122.3	122.7	.....	119.8	119.4
8	126.2	134.0	137.9	120.7	118.4	121.8	121.0	122.2	122.9	.....	119.5	119.5
9	126.3	134.1	136.6	120.8	118.6	122.1	121.0	122.1	123.0	.....	119.4	119.2
10	131.7	134.4	138.0	115.7	119.2	122.0	120.9	122.1	123.1	.....	119.3	119.1
11	132.1	134.5	138.1	116.4	119.5	122.1	120.8	122.1	123.0	.....	119.3	118.7
12	132.3	133.8	138.1	116.4	119.5	121.9	120.7	122.2	122.8	122.69	119.3	118.6
13	132.2	133.5	138.0	116.2	121.1	121.9	120.7	122.2	122.8	.....	118.9	119.0
14	132.1	135.4	138.1	115.6	121.4	122.0	120.7	122.2	122.9	122.9	118.8	119.1
15	132.0	136.2	138.4	115.9	121.4	122.2	120.8	122.1	122.9	122.9	118.7	119.2
16	132.2	136.5	138.0	116.0	121.2	122.9	120.8	123.0	122.8	122.9	119.0	119.2
17	132.4	136.8	137.5	115.8	121.6	123.0	120.9	123.3	122.7	122.9	119.2	119.0
18	132.3	136.9	137.6	115.7	121.8	123.3	120.6	123.4	122.8	122.8	119.6	118.6
19	132.5	136.8	137.6	115.7	121.6	123.4	120.8	123.5	123.0	122.7	119.6	118.6
20	132.0	137.0	137.2	115.7	121.6	123.5	120.9	123.3	123.1	122.7	119.1	118.5
21	131.9	137.0	137.0	115.5	121.6	123.6	121.2	123.9	123.1	119.6	119.0	118.8
22	131.8	137.3	136.1	115.4	121.6	123.6	121.6	123.6	123.1	119.8	119.1	119.8
23	131.8	137.6	136.1	115.3	121.7	123.2	121.8	123.1	123.3	120.1	118.9	120.0
24	134.9	137.2	135.8	115.5	121.3	123.1	121.9	123.0	123.4	119.4	118.5	120.1
25	135.3	137.2	136.4	115.8	121.4	122.7	121.9	123.1	123.4	119.6	118.5	119.8
26	135.3	137.1	136.6	116.5	121.5	121.3	121.9	123.2	123.2	119.7	118.6	119.4
27	135.1	137.4	136.9	116.7	121.5	121.6	121.9	123.2	123.1	119.8	118.2	118.9
28	135.3	137.8	136.8	116.6	121.5	121.5	121.9	123.2	123.2	119.9	118.0	119.2
29	135.0		137.0	116.8	121.4	121.7	122.0	123.2	123.4	120.0	118.6	119.2
30	134.9		137.0	116.9	121.3	121.8	122.1	123.1	123.6	119.8	119.2	119.4
31	134.8		137.0		131.4		122.3	123.1		120.1		118.2

a Tape measurement.

79:8-86S. Memphis Light, Gas and Water Division. About 225 feet south of Willow Road and about 1,400 feet east of Getwell Road. Records available: 1948-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.13	25.75	24.69	23.28	22.10	23.35	25.12	26.41	27.19	27.46	27.65	27.47
2	.....	25.72	24.73	23.17	22.16	23.32	25.18	26.48	27.15	27.64	27.56	27.48
3	27.22	25.48	24.81	23.25	22.31	23.45	25.24	26.67	27.05	27.69	27.58	27.27
4	27.73	25.48	24.57	23.38	22.48	23.45	24.70	26.66	27.08	27.51	27.45	27.32

79:8-86S--Continued.

## Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	27.85	25.32	24.36	22.82	22.70	23.30	24.81	26.69	27.11	27.31	27.59	27.30
6	27.99	25.10	24.77	22.48	22.89	23.31	25.11	26.73	27.17	27.45	27.45	27.25
7	27.44	25.10	24.90	22.50	23.04	23.53	25.33	26.73	27.27	27.52	27.34	27.42
8	27.13	24.99	24.69	22.36	23.34	23.59	25.51	26.71	27.39	27.55	27.42	27.43
9	27.38	25.10	24.54	22.42	23.16	23.68	25.58	26.77	27.44	27.53	27.51	27.33
10	27.53	25.42	24.55	22.70	22.96	23.88	25.65	27.03	27.47	27.48	27.56	27.23
11	27.38	25.42	24.41	22.76	23.07	23.96	25.30	27.23	27.10	27.49	27.62	27.21
12	27.13	25.16	24.15	22.69	23.16	24.07	25.50	27.54	27.24	27.56	27.65	28.06
13	26.93	24.87	24.18	22.47	23.20	23.80	25.62	26.99	27.48	27.56	27.54	27.77
14	26.84	24.75	24.15	22.39	23.22	23.54	25.72	26.85	27.53	27.56	27.41	27.36
15	26.92	24.84	24.35	22.56	23.10	23.43	25.81	26.99	27.21	27.51	27.64	27.33
16	27.14	24.99	24.13	22.57	22.96	23.54	25.91	27.06	27.16	27.53	27.74	27.28
17	27.19	25.03	23.73	22.38	23.07	23.83	25.41	27.03	27.23	27.42	27.76	27.09
18	27.03	24.75	23.94	22.46	23.42	23.83	25.72	27.01	27.43	27.40	27.78	27.26
19	27.26	24.46	24.01	22.59	23.58	.....	25.84	27.04	27.50	27.51	27.47	27.24
20	27.17	24.52	23.87	22.53	.....	23.72	25.92	27.11	27.51	27.61	27.40	27.33
21	26.57	24.45	23.58	22.40	.....	23.47	26.05	27.02	27.52	26.80	27.51	27.25
22	26.48	24.55	23.40	22.39	.....	23.36	26.12	26.67	27.52	27.95	27.46	27.24
23	26.28	24.60	23.40	22.42	.....	23.29	26.19	26.84	27.65	27.91	27.25	27.24
24	26.32	24.44	23.50	.....	23.37	23.53	26.21	26.83	27.67	27.73	27.51	27.09
25	26.34	24.57	23.60	22.63	23.36	.....	26.25	27.12	27.63	27.62	27.39	26.83
26	26.17	24.46	23.50	22.77	23.28	.....	26.02	27.36	27.56	27.98	27.51	26.69
27	25.80	24.40	22.95	22.53	23.39	24.18	26.17	27.24	27.61	28.16	27.24	26.91
28	25.87	24.64	23.16	22.27	23.18	24.40	26.33	26.94	27.74	27.75	27.34	26.91
29	26.03		23.54	22.31	22.99	24.71	26.28	26.88	27.85	27.65	27.50	26.70
30	25.85		23.15	22.28	23.12	24.94	26.32	26.93	27.56	27.65	27.51	27.09
31	25.60		23.38		23.22		26.38	27.08		27.73		26.87

## a Tape measurement.

79:9-107. Memphis Light, Gas and Water Division. About 75 feet east of Woodland Ave. and about 125 feet southwest of Marjorie St. Drilled observation well, diameter 4 inches, depth 338 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
June 29, 1948	69.73	Dec. 20, 1948	70.62	July 11, 1949	68.35
July 6	67.88	27	70.75	18	69.08
13	68.98	Jan. 3, 1949	70.63	25	69.34
20	70.40	10	65.14	Aug. 1	69.94
27	70.50	17	62.87	8	70.41
Aug. 3	70.62	24	62.62	15	70.75
10	70.63	Feb. 1	63.07	22	70.47
17	70.66	7	63.47	29	70.31
23	70.43	Mar. 21	61.27	Sept. 5	70.39
30	71.08	28	61.09	12	70.25
Sept. 6	71.00	Apr. 4	61.55	19	69.61
13	70.63	11	61.77	26	69.98
20	71.72	18	62.48	Oct. 10	69.40
27	71.22	25	62.48	17	69.41
Oct. 4	70.18	May 2	62.32	24	69.22
11	70.25	9	64.29	31	68.27
18	69.39	16	65.18	Nov. 7	67.50
25	68.51	24	66.93	14	67.49
Nov. 1	67.63	31	67.12	21	67.74
8	66.77	June 6	67.16	28	66.23
15	66.47	13	67.83	Dec. 5	67.15
29	63.40	20	67.83	12	66.64
Dec. 6	65.82	27	68.44	19	65.79
13	70.06	July 4	68.76	26	65.21

79:9-110. Memphis Light, Gas and Water Division. On Pine Hills golf course, about 175 feet west of Mississippi Blvd. and about 500 feet south of Alice Ave. Records available: 1948-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.4	49.1	47.9	49.1	49.9	52.8	54.6	55.2	56.6	....	54.2	53.3
2	49.8	49.2	48.2	49.2	49.5	53.2	54.6	55.6	56.7	....	54.4	53.4
3	50.2	49.2	48.3	49.0	49.9	53.4	54.3	56.0	56.7	a54.87	54.5	53.4
4	49.8	49.3	48.3	48.5	50.2	53.4	54.0	56.4	56.3	55.4	54.5	53.2
5	50.1	49.3	48.3	48.8	50.5	53.0	53.7	56.5	55.6	55.4	54.5	52.7
6	50.4	49.1	48.1	49.0	....	52.6	53.5	56.5	55.3	55.5	54.2	52.8
7	50.6	48.5	47.7	49.2	....	52.8	53.4	56.2	55.6	55.6	53.5	53.0
8	50.6	48.6	47.8	49.4	....	53.3	53.5	55.7	55.9	55.6	53.8	53.2
9	50.1	48.7	48.0	49.4	a50.03	53.8	53.6	55.9	56.2	55.3	54.0	53.2
10	49.6	49.0	48.2	49.2	....	54.1	53.6	56.3	56.2	54.8	54.1	53.2
11	49.9	49.0	48.3	48.7	....	54.1	53.5	56.6	55.8	55.1	54.1	52.7
12	50.1	49.0	48.3	48.8	....	53.7	53.9	56.8	a55.12	55.4	54.1	52.2
13	50.2	48.6	48.2	49.1	....	53.2	54.3	56.8	55.7	55.6	53.7	52.6
14	50.2	48.0	47.9	49.4	....	53.4	54.7	56.4	56.0	55.7	53.1	52.9
15	50.2	48.2	48.4	49.8	....	53.7	54.8	56.0	56.2	55.7	53.5	53.0
16	49.8	48.5	48.5	49.8	a50.80	53.9	54.8	56.2	56.2	55.4	53.6	53.0
17	49.2	48.6	48.6	49.6	51.3	54.1	54.3	56.4	56.2	54.9	53.7	52.8
18	49.5	48.6	48.9	49.0	51.8	54.1	53.8	56.6	55.5	55.1	53.9	52.3
19	49.8	48.6	48.9	49.1	52.2	53.8	54.1	56.7	a54.92	55.4	53.9	51.7
20	49.8	48.5	48.8	49.2	52.5	53.4	54.4	56.7	55.5	55.6	53.7	51.9
21	49.8	48.0	48.2	49.3	52.5	53.8	54.7	56.2	55.8	55.7	53.3	52.0
22	49.8	48.1	48.5	49.4	52.1	54.1	55.0	a55.63	56.1	55.7	53.6	52.3
23	49.5	48.3	48.7	49.4	52.0	54.3	55.1	56.0	56.3	55.3	53.7	52.4
24	49.0	48.4	48.9	49.0	a52.04	54.3	54.8	56.1	56.3	54.8	53.7	52.4
25	49.5	48.5	48.9	48.8	....	54.3	54.6	56.3	55.8	55.0	53.1	51.9
26	49.6	48.5	48.9	49.3	....	54.0	54.9	56.4	55.4	55.2	52.8	51.2
27	49.6	48.0	48.7	49.6	....	53.9	55.2	56.4	55.7	55.2	52.3	50.9
28	49.7	47.6	48.4	50.1	....	54.2	55.5	56.0	55.9	55.2	52.1	51.1
29	49.7		48.6	50.2	....	54.5	55.8	a55.36	56.2	54.8	52.7	51.4
30	49.5		48.7	50.2	....	54.6	55.8	a55.79	....	54.6	53.1	51.6
31	48.8		49.0		a52.14		55.5	56.3		54.0		51.6

a Tape measurement.

79:9-115. Memphis Light, Gas and Water Division. About 75 feet south of Mallory Road and about 250 feet west of U. S. Highway 51. Drilled observation well, diameter 4 inches, depth 310 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 17	58.61	Nov. 7	57.30	Nov. 28	55.88	Dec. 19	55.90
24	58.49	14	56.99	Dec. 5	56.41	26	55.16
31	57.88	21	56.97	12	55.97		

79:9-131. Memphis Light, Gas and Water Division. About 100 feet north of Rutgers Road and about 100 feet west of Vassar Road. Drilled observation well, diameter 4 inches, depth 312 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 17	81.29	Nov. 7	79.96	Nov. 28	78.79	Dec. 19	78.39
24	81.21	14	79.88	Dec. 5	79.78	26	77.80
31	80.59	21	80.10	12	79.13		

79:9-135. Memphis Light, Gas and Water Division. About 75 feet south of Alcy Road and about 75 feet west of Benton Road. Drilled observation well, diameter 4 inches, depth 265 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 17	41.20	Nov. 7	40.00	Nov. 28	38.78	Dec. 19	38.59
24	41.08	14	39.84	Dec. 5	39.66	26	37.94
31	40.55	21	40.03	12	39.02		

79:11-1. Forest Products Chemical Co. About 300 feet south of Chelsea Ave. and about 1,200 feet east of Fairfax St. in engine room of plant. Records available: 1944-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.5	78.9	a77.7	82.1	75.6	....	85.5	82.1	85.6	85.8	83.1	82.1
2	74.7	78.8	....	80.5	77.3	....	85.5	84.8	85.4	85.5	83.4	82.5
3	75.4	79.1	....	77.1	78.7	....	80.4	84.3	85.5	84.8	83.4	82.4
4	75.8	79.0	....	....	79.1	....	77.0	85.0	83.9	84.7	82.3	81.4
5	76.3	78.9	....	80.8	78.8	81.0	75.8	86.0	82.8	84.9	83.7	81.5
6	76.5	77.5	....	80.5	79.8	82.2	77.3	86.1	81.8	84.7	83.5	81.9
7	77.6	76.6	....	81.2	79.5	81.4	77.5	86.1	82.6	84.8	83.1	82.2
8	78.3	77.1	a78.05	81.7	76.4	....	77.1	83.8	82.3	85.3	82.8	82.5
9	76.8	78.4	79.8	81.4	78.5	....	77.5	84.9	81.9	85.5	83.0	82.1
10	....	78.8	79.5	80.8	a78.18	....	75.3	85.1	81.6	84.9	81.7	81.8
11	78.0	79.4	80.8	81.1	....	....	73.5	85.0	82.6	84.6	82.4	80.7
12	79.3	79.6	81.2	a79.35	81.5	80.0	....	85.9	83.7	83.5	82.5	80.6
13	79.3	....	78.6	....	81.9	81.8	....	86.0	84.2	83.3	79.8	82.6
14	79.2	....	79.1	....	80.8	a81.8	....	84.9	85.0	82.8	81.7	82.3
15	78.3	77.7	80.1	....	77.4	....	....	84.4	85.6	84.0	81.8	81.7
16	78.4	77.4	80.3	....	79.5	....	....	85.0	85.5	84.0	81.6	82.2
17	78.6	79.4	80.8	75.2	a78.36	....	....	85.1	85.7	84.3	81.9	81.2
18	77.6	79.2	81.5	76.4	....	....	....	85.3	85.1	84.6	81.7	80.2
19	....	....	80.9	77.5	....	....	....	86.3	85.5	84.3	81.5	79.5
20	78.9	....	79.7	79.5	....	....	....	86.0	86.4	84.8	78.8	80.9
21	78.8	....	79.6	80.3	....	a84.2	82.4	85.4	86.3	84.1	80.3	80.3
22	....	a74.9	80.0	80.6	....	84.6	82.7	84.2	85.7	84.8	81.6	80.3
23	....	78.6	80.9	80.6	....	84.3	....	84.9	85.9	84.4	80.9	82.0
24	80.1	80.0	81.3	76.1	82.5	84.3	84.8	85.8	86.0	84.3	80.3	81.6
25	80.5	79.5	81.8	77.8	....	84.6	84.6	86.3	86.0	83.1	81.1	79.5
26	80.5	80.1	80.3	79.9	a85.44	80.7	84.7	86.4	85.4	82.6	81.1	72.7
27	80.7	....	77.3	79.6	....	82.7	85.2	84.9	84.2	83.7	80.3	76.6
28	....	....	78.9	80.1	....	83.7	85.5	81.7	85.4	83.8	80.2	78.8
29	80.2	....	80.5	80.7	....	84.5	85.8	83.1	84.9	84.1	81.5	78.3
30	....	....	80.9	79.1	....	85.3	84.1	84.2	85.4	82.7	82.7	80.0
31	78.7	....	81.9	....	....	....	81.8	84.9	....	82.4	....	79.7

a Tape measurement.

79:16-1. Layne & Bowler, Inc. University St. about 250 feet south of Chelsea Ave. in well house. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	60.59	Mar. 22	67.46	June 7	73.79	Aug. 17	77.07
11	60.48	29	67.81	15	74.48	24	76.76
18	67.07	Apr. 5	68.30	22	75.43	31	76.77
25	68.47	19	67.87	28	74.96	Sept. 7	75.32
Feb. 1	67.97	26	69.47	July 5	70.59	14	76.14
8	68.13	May 3	69.40	12	69.47	21	76.80
15	67.98	10	71.10	19	70.51	28	76.44
22	68.21	17	70.89	27	75.83	Oct. 19	75.17
Mar. 1	70.74	25	73.47	Aug. 3	76.23	26	74.65
8	69.20	June 1	73.23	10	76.70	Nov. 2	73.78

79:19-1. Oliver Finnie Co. About 50 feet south of Vance Ave. and about 450 feet west of South Front St. in basement of plant. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	105.25	Apr. 12	98.46	July 12	118.59	Oct. 11	114.92
11	106.77	19	100.12	19	115.33	18	111.96
18	98.80	26	103.91	26	117.07	25	109.49
25	99.48	May 3	106.81	Aug. 2	117.32	Nov. 1	107.81
Feb. 1	97.27	10	108.95	9	118.03	8	106.99
8	96.75	17	109.77	16	118.05	15	107.25
15	96.05	25	111.61	23	116.88	22	107.92
22	95.19	June 1	112.22	30	118.10	29	106.61
Mar. 1	95.21	7	113.77	Sept. 6	115.53	Dec. 6	105.95
8	95.04	15	114.74	13	116.83	13	106.00
22	94.66	22	114.55	20	115.85	20	105.00
29	96.33	28	117.13	27	115.35	27	101.36
Apr. 5	97.35	July 5	116.43	Oct. 4	114.28		

79:20-4. Memphis Generating Co. East of Fourth St. and about 500 feet north of Iowa Ave. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	98.44	Apr. 19	99.26	July 19	113.79	Oct. 11	109.80
11	99.10	26	101.95	26	115.13	18	111.20
18	96.93	May 3	103.99	Aug. 2	115.27	25	110.51
25	99.03	10	107.10	9	114.44	Nov. 1	106.63
Feb. 1	94.39	17	110.26	16	114.37	8	105.42
8	96.07	25	109.40	23	112.74	15	106.53
15	96.66	June 1	112.56	30	113.15	22	105.50
22	97.47	7	112.43	Sept. 6	112.40	29	105.16
Mar. 1	97.85	15	113.57	13	113.74	Dec. 6	106.50
8	96.72	22	111.44	20	114.20	13	106.43
22	97.63	28	112.68	27	113.04	20	102.49
29	99.20	July 5	113.10	Oct. 4	111.44	27	101.02
Apr. 5	99.76	12	112.51				

79:21-1. Memphis Publishing Co. About 25 feet west of South Orleans St. and about 125 feet north of Beale Ave. Drilled unused well, diameter 12 inches, reported depth 395 feet. Equipped with recording gage on Oct. 18. Records available: 1949.

Lowest daily water level, from recorder charts

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 26	a106.92	Oct. 21	106.0	Nov. 15	a98.24	Dec. 15	97.5
Aug. 2	a107.36	22	104.2	22	a98.64	16	97.3
9	a107.15	23	102.4	29	a97.64	17	96.4
16	a107.17	24	101.8	Dec. 1	a99.20	18	95.0
23	a106.66	25	100.9	2	99.2	20	a95.63
30	a107.79	26	100.8	3	98.7	21	97.9
Sept. 6	a103.98	27	101.1	4	97.7	22	98.6
13	a106.71	28	101.1	6	97.8	23	98.3
20	a106.86	29	100.6	7	98.4	27	a92.4
27	a105.80	Nov. 1	a97.46	8	98.9	28	94.5
Oct. 4	a103.51	2	99.8	9	98.9	29	94.9
11	a104.28	3	100.1	13	a96.05	30	95.5
18	a102.94	4	100.1	14	97.6	31	94.9
20	105.6						

a Tape measurement.

79:22-1. The Liquid Carbonic Corp. About 375 feet north of McLemore Ave. and about 400 feet west of Florida St. Records available: 1945-49. Measurements discontinued after June 22.

Jan. 4	122.31	Feb. 22	111.30	Apr. 19	113.15	May 25	121.74
11	124.63	Mar. 1	110.91	26	108.38	June 1	121.42
18	106.47	8	110.31	May 3	116.08	7	122.29
25	110.00	22	111.65	10	111.39	15	122.77
Feb. 8	110.11	29	112.60	17	119.55	22	124.11
15	110.53	Apr. 5	112.39				

79:23-1. Memphis Park Commission. At south end of lake in Riverside Park. Records available: 1944-49.

Jan. 4	98.83	Mar. 1	99.69	May 10	98.35	Nov. 15	104.69
11	98.85	8	100.16	17	104.49	22	102.14
18	102.98	22	101.31	25	100.57	29	101.40
25	99.45	29	102.71	Oct. 8	108.04	Dec. 6	101.44
Feb. 1	97.84	Apr. 5	102.97	25	103.42	13	101.50
8	98.11	19	95.54	Nov. 1	103.09	20	99.91
15	97.90	26	104.79	8	101.93	27	99.13
22	98.32						

79:26-2. C. S. Chapman. On Raleigh-Millington Road, about 0.7 mile north of Raleigh. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	78.51	Apr. 11	82.71	July 4	82.46	Sept. 26	84.18
10	80.68	18	80.25	11	81.80	Oct. 10	84.23
17	80.59	25	80.29	18	81.14	17	84.15
24	80.63	May 2	80.24	25	81.69	31	83.95
Feb. 7	80.91	9	80.47	Aug. 1	82.70	Nov. 7	83.84
21	81.22	16	80.73	8	82.82	14	83.79
28	81.97	24	81.27	15	83.11	21	83.34
Mar. 7	81.46	31	81.53	22	83.50	28	83.58
14	80.39	June 6	81.75	29	83.70	Dec. 5	82.93
21	80.71	13	81.98	Sept. 5	83.77	19	83.14
28	81.23	20	82.08	12	83.69	26	82.96
Apr. 4	81.89	27	82.19	19	83.71		

79:28-2. Virginia Carolina Chemical Co. In Memphis about 375 feet east of Collins St. and about 700 feet north of Poplar Ave. Nearby well pumping at time of each measurement, except Jan. 4, 11, June 22, 28, and July 5. Records available: 1944-49.

Jan. 4	37.79	Apr. 19	43.21	July 12	42.35	Oct. 12	43.81
11	39.79	26	42.88	19	42.81	19	43.75
18	44.37	May 3	42.99	27	43.03	26	44.03
25	44.10	10	42.66	Aug. 3	43.14	Nov. 2	43.79
Feb. 1	44.95	17	42.63	10	43.22	9	43.94
8	44.75	25	42.75	17	43.26	16	44.09
15	44.29	June 1	42.69	24	43.29	23	43.82
22	43.45	7	42.52	31	43.31	30	43.79
Mar. 1	44.03	15	42.12	Sept. 7	43.45	Dec. 7	44.20
8	43.12	22	39.52	14	43.68	14	44.12
22	42.19	28	39.56	21	43.67	21	43.76
29	42.44	July 5	39.00	28	43.55	28	44.20
Apr. 5	42.63						

79:32-2. Southern United Ice Co. About 150 feet south of Auction Ave. and about 325 feet west of North Seventh St. Drilled unused well. Records available: 1949.

Sept. 23	74.18	Oct. 17	70.01	Nov. 21	65.74	Dec. 12	64.35
26	70.96	31	64.86	28	63.78	19	63.25
Oct. 3	69.47	Nov. 7	65.64	Dec. 5	64.77	26	60.08
10	69.06	14	65.68				

79:32-4. Southern United Ice Co. Formerly owned by Bannon Ice & Fuel Co. About 150 feet south of Auction Ave. and about 150 feet east of North Seventh St. Records available: 1943-49. Measurements discontinued after Oct. 10.

Jan. 3	67.93	Mar. 14	59.86	May 16	63.82	Aug. 15	72.12
10	58.27	21	56.52	June 20	69.08	22	72.50
17	57.39	28	57.46	27	71.31	29	71.77
24	56.99	Apr. 4	58.67	July 4	69.63	Sept. 5	70.98
Feb. 1	58.19	12	59.08	11	70.80	12	72.06
8	57.27	18	57.35	18	70.63	19	71.66
14	57.67	25	61.11	25	70.32	26	72.04
21	55.10	May 2	61.59	Aug. 1	70.36	Oct. 3	70.60
28	64.59	9	65.09	8	72.05	10	70.12
Mar. 7	63.20						

79:33-2. Memphis State College. In pump house, about 600 feet south of Norriswood Ave., and about 700 feet east of Patterson St. Records available: 1945-47, 1949.

## 79:33-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 27	119.40	Sept. 14	120.08	Oct. 26	116.53	Nov. 30	115.58
Aug. 10	119.80	21	120.23	Nov. 2	117.17	Dec. 7	116.09
17	121.05	28	120.04	9	116.44	14	116.10
24	120.23	Oct. 12	119.86	16	116.24	21	115.16
31	120.28	19	119.75	23	116.04	28	116.39
Sept. 7	119.95						

79:34-1. H. Blockman & Co. About 250 feet south of Mallory Ave. and about 600 feet east of South Third St. Records available: 1944-47, 1949.

Sept. 9	48.09	Oct. 11	47.22	Nov. 8	45.62	Dec. 6	45.16
13	47.41	18	47.25	15	45.57	13	44.93
20	46.92	25	47.02	22	45.65	20	43.93
27	47.27	Nov. 1	46.35	29	44.66	27	42.71
Oct. 4	47.48						

79:36-1. Oakville Memorial Sanatorium. In pump house, about 675 feet northwest of Getwell Road and about 1,200 feet southwest of U. S. Highway 78. Records available: 1945-49.

Jan. 3	59.39	May 16	63.60	Aug. 1	65.57	Oct. 24	65.72
10	64.35	24	63.71	8	65.55	31	65.63
Feb. 28	64.85	31	63.75	15	65.58	Nov. 7	65.07
Mar. 14	64.48	June 6	63.78	22	65.57	14	64.94
21	63.12	14	64.52	29	65.56	21	64.91
28	63.49	20	64.38	Sept. 5	65.39	28	64.60
Apr. 7	63.80	27	64.60	12	65.46	Dec. 5	64.89
18	63.13	July 4	64.58	19	65.63	12	64.44
25	63.20	11	64.95	26	65.74	19	64.53
May 2	62.96	18	64.64	Oct. 10	66.26	26	64.16
9	63.52	25	65.02	17	65.70		

79:36-2. Oakville Memorial Sanatorium. About 750 feet northwest of Getwell Road and about 900 feet southwest of U. S. Highway 78, in pump house. Records available: 1945-49.

Jan. 3	58.42	Apr. 25	56.63	July 18	57.90	Sept. 19	58.84
10	59.55	May 2	56.00	25	57.39	26	58.67
17	61.40	9	56.92	Aug. 1	58.55	Oct. 3	58.78
24	60.10	16	56.52	8	58.98	10	60.52
Feb. 7	59.73	31	56.70	15	59.01	17	58.33
28	64.31	June 6	57.06	22	58.33	31	58.86
Mar. 7	64.03	14	56.64	29	58.74	Nov. 14	58.06
Apr. 4	63.52	20	56.96	Sept. 5	58.42	21	58.18
18	56.28	27	58.24	12	58.52	Dec. 26	57.15

79:37-1. Whitehaven High School. In Whitehaven, about 250 feet west of U. S. Highway 51 and about 0.35 mile south of Capleville-Whitehaven Rd. Records available: 1944-49.

Jan. 4	36.29	Apr. 26	34.92	July 19	37.87	Oct. 11	41.39
11	37.98	May 3	34.66	26	38.41	18	41.55
18	42.18	10	34.73	Aug. 2	38.37	25	41.73
25	41.79	17	35.00	9	39.22	Nov. 1	41.79
Feb. 8	42.15	25	35.41	16	39.32	8	41.92
15	41.41	June 1	35.84	23	39.64	15	41.99
22	41.27	7	36.17	30	40.00	22	42.18
Mar. 1	41.95	15	36.65	Sept. 6	40.29	29	42.22
8	43.15	22	36.87	13	40.55	Dec. 6	42.40
22	42.26	28	36.99	20	40.76	13	42.26
29	42.49	July 5	37.24	27	40.99	20	42.27
Apr. 5	42.14	12	37.56	Oct. 4	41.19	27	42.19
19	35.44						



79:38-3. American Finishing Co. About 150 feet east of Lauderdale St. and about 275 feet south of Bodley Ave. Records available: 1945-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.2	75.4	73.1	....	77.6	81.0	85.5	83.7	91.6	85.8	83.6	83.8
2	71.7	75.8	73.0	....	a75.6	82.2	82.4	84.6	92.8	82.3	83.9	83.9
3	75.5	75.8	74.0	....	....	82.4	79.5	85.8	91.9	84.6	84.1	83.8
4	77.0	76.5	73.6	a75.98	....	82.3	79.1	86.2	83.2	a83.22	84.5	81.9
5	78.1	75.8	72.4	....	....	79.0	78.9	86.1	81.6	....	84.5	81.8
6	78.4	73.5	72.1	....	....	78.3	79.0	85.7	83.3	a84.5	81.9	82.6
7	79.0	73.6	72.0	....	....	79.1	78.9	82.4	84.3	a85.22	82.8	83.3
8	79.0	74.4	72.4	....	....	81.4	79.3	82.9	85.6	85.0	83.8	83.6
9	72.4	74.2	72.7	....	a77.26	83.0	79.1	84.1	86.3	82.5	84.6	83.9
10	75.3	75.0	73.0	....	....	67.7	79.0	85.3	86.1	82.7	84.7	83.7
11	77.8	75.4	73.0	78.3	....	87.2	81.4	86.2	82.2	84.1	84.3	81.2
12	77.8	74.3	72.7	77.8	....	....	83.1	86.3	83.8	85.0	84.1	81.2
13	77.1	72.5	73.6	80.3	....	80.9	84.6	86.1	85.2	85.5	81.7	82.8
14	77.2	73.5	72.6	81.1	....	82.2	85.2	82.7	85.4	85.7	82.3	83.7
15	76.9	74.7	73.4	81.6	....	82.6	85.1	83.6	85.9	85.3	83.2	83.4
16	73.5	75.5	74.1	79.5	a78.62	85.4	84.7	84.4	86.0	85.3	83.2	82.8
17	74.4	75.6	72.3	79.3	81.3	83.9	81.9	85.0	....	83.0	83.6	82.1
18	76.6	74.0	73.9	79.0	83.8	83.8	83.1	90.5	....	83.9	83.9	79.6
19	76.6	74.0	73.1	81.0	84.6	....	84.3	91.6	....	85.3	83.7	85.6
20	75.9	72.2	72.9	82.0	84.0	80.7	84.3	90.8	a83.47	86.1	82.5	87.4
21	78.1	72.0	75.3	....	81.7	84.0	85.1	82.8	85.5	86.3	85.0	82.4
22	75.8	73.1	74.8	81.6	78.0	83.2	85.4	88.5	86.4	85.6	84.2	82.2
23	73.4	74.4	75.1	81.0	79.0	84.4	85.2	90.2	86.6	82.4	84.6	82.0
24	74.7	74.2	75.0	76.2	79.6	83.8	81.8	90.6	86.4	83.2	84.2	81.3
25	76.4	73.5	74.4	79.6	81.1	83.2	83.6	91.7	82.8	84.5	80.2	78.8
26	76.5	73.3	75.1	80.7	83.3	80.3	84.3	90.8	84.2	85.2	78.9	78.3
27	76.9	72.2	....	81.6	83.3	81.4	85.2	89.9	85.4	85.7	78.3	79.2
28	76.6	71.2	79.1	82.8	82.0	82.8	85.2	82.7	86.3	85.4	81.5	80.2
29	76.0	....	80.1	82.5	78.6	83.4	85.2	90.3	86.2	84.3	83.0	81.4
30	73.2	....	80.9	81.7	79.8	85.6	85.0	91.7	86.0	81.9	83.5	81.8
31	74.5	....	....	....	80.8	....	82.0	92.5	....	82.4	....	81.5

a Tape measurement.

79:38-4. American Finishing Co. In center of east reservoir, about 275 feet east of McMillan St., and about 350 feet south of Bodley Ave. Records available: 1945-48. No measurement made in 1949.

79:49-1. Jack Callie. In Oakville, about 20 feet northwest of Getwell Rd. and about 400 feet northeast of U. S. Highway 78. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	35.23	Apr. 11	34.31	July 11	34.06	Oct. 10	35.58
10	36.12	18	33.68	18	34.24	17	34.75
17	36.07	25	33.49	25	34.43	24	35.87
24	37.49	May 2	33.44	Aug. 1	34.48	31	35.94
Feb. 7	37.60	10	33.23	8	34.72	Nov. 7	35.90
21	37.46	16	33.36	15	34.94	14	36.02
28	34.98	24	33.53	22	35.01	21	36.20
Mar. 7	35.59	31	33.50	29	35.08	28	36.03
14	35.27	June 6	33.59	Sept. 5	35.30	Dec. 5	36.19
21	35.22	20	33.86	12	35.39	19	36.27
28	34.37	27	33.93	19	35.45	26	36.46
Apr. 4	34.28	July 4	33.95	26	35.49		

79:54-1. Banner Laundry-Cleaner. In Memphis, about 75 feet south of Beale Ave. and about 140 feet east of Hernando St. Records available: 1945-49.

Jan. 4	81.15	Feb. 8	68.15	Mar. 22	69.57	Apr. 26	74.52
11	77.47	15	68.47	29	70.36	May 3	77.85
18	69.23	22	68.15	Apr. 5	71.39	10	81.33
25	70.31	Mar. 1	68.35	12	72.28	17	81.74
Feb. 1	68.60	8	69.26	19	70.83	25	83.43

## 79:54-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 1	84.85	July 26	89.68	Sept. 20	88.71	Nov. 15	78.03
7	86.38	Aug. 2	90.20	27	87.27	22	78.27
15	85.95	9	89.78	Oct. 4	85.11	29	77.15
22	86.30	16	89.85	11	86.48	Dec. 6	76.90
28	89.02	23	88.96	18	82.74	13	76.71
July 5	87.49	30	90.66	25	80.21	20	75.23
12	90.36	Sept. 6	86.67	Nov. 1	77.68	27	72.29
19	88.89	13	88.66	8	77.91		

79:55-1. Baptist Memorial Hospital. About 100 feet north Monroe Ave. and about 200 feet west of East St. Drilled unused well, diameter 6 inches, depth 490 feet. Records available: 1949.

July 26	90.00	Sept. 6	94.47	Oct. 18	95.84	Nov. 22	94.51
Aug. 2	90.25	13	95.72	25	95.94	29	92.98
9	92.07	20	95.03	Nov. 1	94.57	Dec. 13	91.37
16	92.29	27	95.32	8	94.38	20	91.82
23	93.60	Oct. 11	95.69	15	94.39	27	89.97
30	94.10						

79:61-1. Chicksaw Cooperage Co. About 50 feet north of Pershing Ave. and about 300 feet west of Scott St. in sub-basement of plant. Records available: 1944-49.

Jan. 4	74.57	Apr. 12	84.95	July 12	73.53	Oct. 12	91.38
11	76.63	19	86.30	19	85.65	19	91.11
18	81.52	26	87.35	27	91.92	26	90.68
25	88.08	May 3	85.60	Aug. 3	92.31	Nov. 2	89.87
Feb. 1	85.19	10	88.70	10	90.65	9	89.43
8	84.63	17	88.72	17	90.56	16	88.83
15	77.54	25	90.65	24	90.72	23	88.95
22	82.37	June 1	90.37	31	90.80	30	88.27
Mar. 1	77.27	7	90.57	Sept. 7	88.64	Dec. 7	88.17
8	80.16	15	90.91	14	91.85	14	88.04
22	82.97	22	91.58	21	92.35	21	87.34
29	83.31	28	90.92	28	92.00	28	85.97
Apr. 5	85.21	July 5	75.47				

79:65-1. Clover Farm Dairy. About 85 feet east of Manassas St. and about 125 feet north of Beale Ave. Records available: 1945-49.

## Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	110.8	a110.60	a109.66	118.0	116.1	124.2
2	108.9	.....	.....	116.6	117.6	124.1
3	110.3	112.0	.....	114.3	120.0	125.7
4	a110.62	112.2	.....	115.6	.....	125.7
5	.....	111.5	.....	a116.08	.....	.....
6	.....	109.1	.....	.....	123.2	.....
7	.....	110.7	.....	.....	122.2	a124.77
8	111.4	111.3	a112.21	.....	119.6	.....
9	109.4	111.7	113.8	.....	121.5	.....
10	110.3	109.2	114.1	.....	120.9	.....
11	110.6	109.3	114.4	.....	121.5	.....
12	110.5	108.6	114.6	.....	121.4	.....
13	110.6	106.9	112.6	.....	121.9	.....
14	111.0	107.4	114.5	.....	121.2	.....
15	110.3	110.8	115.3	.....	119.4	.....
16	108.8	108.8	115.4	.....	121.2	.....
17	109.4	109.3	115.5	.....	123.2	.....
18	109.3	.....	116.0	.....	124.0	.....
19	110.7	.....	115.3	a112.40	124.8	.....
20	.....	.....	.....	114.5	125.3	.....
21	.....	.....	113.7	114.6	124.6	.....
22	.....	a107.38	115.0	115.2	122.9	127.6
23	.....	.....	115.3	115.5	123.6	128.4

79:65-1--Continued.

## Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June
24	.....	.....	115.7	115.2	124.0	129.2
25	a109.43	.....	117.1	116.4	124.5	128.4
26	.....	.....	116.4	117.0	124.3	126.0
27	.....	.....	116.4	117.9	125.1	127.5
28	.....	.....	115.6	119.5	124.6	129.3
29	.....	.....	117.1	120.6	.....	130.4
30	.....	.....	118.1	119.5	.....	131.1
31	.....	.....	118.0	.....	a123.12	.....

## Lowest daily water level, from recorder charts

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	132.2	127.9	131.2	.....	120.1	121.1
2	.....	129.8	130.9	.....	121.6	120.5
3	.....	130.8	.....	.....	121.9	.....
4	124.1	131.7	.....	a124.87	121.8	118.6
5	125.6	131.5	.....	126.1	121.0	119.0
6	127.5	130.5	a125.07	126.5	.....	119.4
7	129.0	128.0	.....	127.0	.....	120.0
8	129.8	128.6	.....	129.0	120.7	120.5
9	128.9	129.8	.....	124.4	121.4	120.6
10	126.7	130.4	.....	126.0	121.9	119.5
11	127.6	.....	.....	126.9	122.1	117.5
12	129.3	.....	.....	.....	121.1	118.5
13	129.8	.....	a129.0	.....	.....	118.9
14	129.6	.....	129.9	.....	.....	119.4
15	129.9	129.4	129.3	.....	120.8	119.3
16	128.5	131.1	128.1	.....	122.0	119.0
17	.....	131.6	126.9	.....	122.4	118.1
18	.....	.....	124.8	.....	122.1	.....
19	a126.28	.....	.....	a125.35	121.7	117.2
20	129.2	.....	a128.24	126.4	.....	118.3
21	129.9	.....	129.3	126.8	121.2	119.9
22	130.4	.....	129.6	125.2	121.4	120.8
23	.....	a127.95	129.8	122.9	121.5	120.3
24	126.4	130.1	.....	123.2	.....	118.9
25	127.6	130.5	.....	122.6	120.1	116.6
26	129.2	.....	.....	122.5	.....	.....
27	130.4	.....	a127.11	122.9	.....	114.4
28	131.0	.....	129.3	122.7	.....	116.5
29	.....	.....	128.4	121.9	a119.6	116.9
30	130.0	a128.84	.....	.....	120.9	117.4
31	127.0	130.8	.....	.....	.....	116.9

a Tape measurement.

79:87-2. Illinois Central System. About 200 feet west of Barton St. and about 400 feet south of Gilbert Ave. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	79.97	Apr. 26	88.33	July 19	85.28	Oct. 11	89.37
11	79.09	May 3	93.40	26	97.96	18	88.67
18	67.32	10	92.52	Aug. 2	93.64	25	88.50
25	70.44	17	96.57	9	100.62	Nov. 1	87.04
Feb. 8	70.26	25	96.28	16	101.17	8	88.30
15	70.62	June 1	95.17	23	88.02	15	85.03
22	70.33	7	102.23	30	86.90	22	84.25
Mar. 1	70.57	15	97.21	Sept. 6	103.86	29	82.70
8	69.59	22	99.60	13	80.22	Dec. 6	85.78
22	69.21	28	97.71	20	85.59	13	86.41
29	69.66	July 5	98.63	27	95.52	20	84.70
Apr. 5	70.23	12	104.39	Oct. 4	82.84	27	79.46
19	89.30						

79:105-1. Memphis Light, Gas and Water Division. In engine room, about 125 feet east of Kansas St. and about 250 feet south of McLemore Ave. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	103.86	Apr. 12	109.49	July 12	118.41	Oct. 11	118.15
11	101.91	19	107.67	19	117.87	18	116.65
18	106.33	26	107.49	26	118.44	25	116.96
25	106.57	May 3	110.25	Aug. 2	120.53	Nov. 1	114.00
Feb. 1	104.63	10	110.27	9	119.40	8	113.30
8	104.22	17	113.49	16	119.60	15	113.70
15	105.35	25	115.56	23	117.65	22	113.55
22	106.54	June 1	115.53	30	118.05	29	112.66
Mar. 1	107.05	7	116.34	Sept. 6	118.16	Dec. 6	112.04
8	106.85	15	116.78	13	119.22	13	112.00
22	107.38	22	116.58	20	118.59	20	110.88
29	107.03	28	117.55	27	117.45	27	108.91
Apr. 5	108.01	July 5	117.08	Oct. 4	116.42		

79:122-1. Reed Bros. Dairy. About 125 feet north of Beechwood Ave. and about 150 feet west of Bellevue Blvd. Records available: 1946-49.

Jan. 3	128.63	Apr. 4	122.86	June 20	129.66	Oct. 25	129.44
10	128.67	11	123.39	27	129.70	Nov. 1	128.25
17	120.39	18	120.99	July 11	136.52	8	127.10
24	118.00	25	120.73	18	137.24	15	126.13
Feb. 7	119.67	May 2	122.79	Aug. 2	136.63	22	127.61
21	119.99	9	124.38	Sept. 13	133.50	29	126.45
28	119.63	16	125.87	20	139.36	Dec. 6	124.87
Mar. 7	120.32	24	130.48	27	130.10	13	125.11
14	121.65	31	128.20	Oct. 4	129.30	20	125.24
21	120.69	June 6	125.26	11	128.99	27	122.93
28	122.19	13	128.83	18	128.69		

79:142-1. Welsh Lumber Co. About 500 feet west of Florida St. and about 1,000 feet south of Bodley Ave. Records available: 1946-49.

Jan. 4	30.08	Apr. 19	26.44	July 19	33.69	Oct. 11	34.19
11	36.14	26	26.78	26	33.38	18	34.29
18	27.89	May 3	27.94	Aug. 2	33.49	25	33.96
25	28.00	10	28.71	9	34.37	Nov. 1	33.28
Feb. 1	26.89	17	29.75	16	34.74	8	32.75
8	26.65	25	30.88	23	34.54	15	32.93
15	26.05	June 1	31.09	30	34.93	22	32.80
22	23.90	7	31.66	Sept. 6	34.27	29	31.90
Mar. 1	24.33	15	32.01	13	34.67	Dec. 6	32.21
8	25.22	22	31.57	20	34.29	13	32.16
22	25.99	28	32.38	27	34.21	20	30.80
29	26.86	July 5	32.67	Oct. 4	34.56	27	29.50
Apr. 5	28.09	12	33.47				

79:148-1D. Hamilton Co., Inc. At Sloanville, on property formerly known as the Chicksaw Ordnance Works, about 3 miles west of Millington and about 75 feet south of Shelby Road. Records available: 1947-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.23	39.71	39.56	39.49	39.61	40.05	40.40	40.77	42.22	42.90	42.78	43.28
2	40.06	39.68	39.47	39.40	39.63	40.05	40.42	40.81	42.21	42.88	42.81	43.38
3	39.98	39.45	39.46	39.41	39.69	40.10	40.43	40.96	42.21	42.88	42.87	43.34
4	40.02	39.31	39.37	39.43	39.69	40.11	40.40	41.06	42.22	42.87	42.86	43.39
5	40.15	39.28	39.23	39.25	39.69	40.10	40.48	41.15	42.26	42.82	43.01	43.39
6	40.23	39.19	39.38	39.21	39.70	40.10	40.48	41.26	42.31	42.67	43.01	43.24
7	40.23	39.22	39.43	39.21	39.67	40.10	40.49	41.15	42.35	42.72	42.94	43.29
8	40.17	39.12	39.31	39.15	39.66	40.17	40.57	41.24	42.42	42.78	42.87	43.32
9	40.30	39.18	39.16	39.13	39.63	40.21	40.61	41.20	42.46	42.78	42.84	43.33
10	40.34	39.37	39.42	39.25	39.68	40.22	40.62	41.20	42.46	42.71	42.82	43.18
11	40.36	.....	39.43	39.37	39.76	40.17	40.60	41.28	42.53	42.69	42.77	43.07

79:148-1D--Continued.

Lowest daily water level, from recorder charts											
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. Dec.
12	40.29	.....	39.45	39.27	39.82	40.11	40.60	41.25	42.51	42.68	42.77 43.20
13	40.23	.....	39.58	.....	39.82	40.13	40.62	41.24	42.56	42.71	42.82 43.27
14	40.11	.....	39.62	.....	39.83	40.06	40.61	41.24	42.59	42.75	42.86 43.26
15	40.04	.....	39.78	.....	39.84	40.09	40.62	41.27	42.57	42.73	42.92 43.26
16	39.97	.....	39.74	.....	39.84	40.11	40.62	41.32	42.58	42.71	43.03 43.23
17	40.05	.....	39.58	.....	39.90	40.16	40.62	41.33	42.58	42.79	43.09 43.11
18	39.93	.....	39.71	.....	39.94	40.23	40.65	41.34	42.61	42.82	43.13 42.97
19	40.11	.....	39.78	.....	39.95	40.23	40.66	41.30	42.64	42.80	43.11 42.97
20	.....	.....	39.73	.....	39.90	40.22	40.63	41.44	42.65	42.78	43.08 42.92
21	.....	.....	39.58	.....	39.82	40.18	40.63	41.57	42.62	42.74	43.28 .....
22	.....	.....	39.55	.....	39.96	40.14	40.66	41.61	42.57	42.85	43.28 .....
23	.....	39.51	39.57	.....	40.05	40.09	40.69	41.65	42.66	42.86	43.12 .....
24	.....	39.55	39.58	.....	40.07	40.00	40.68	41.70	42.66	42.86	43.00 .....
25	.....	39.60	39.60	.....	40.12	40.09	40.67	41.82	42.66	42.84	43.07 .....
26	.....	39.59	39.53	.....	40.09	40.18	40.64	41.84	42.35	42.88	43.10 .....
27	.....	39.54	39.56	.....	40.12	40.22	40.58	41.83	42.65	42.88	43.01 .....
28	39.64	39.57	39.61	39.51	40.09	40.25	40.71	41.85	42.66	42.81	42.96 42.86
29	39.95		39.63	39.52	40.08	40.31	40.71	41.98	42.79	42.77	43.13 42.83
30	39.88		39.49	39.51	40.03	40.34	40.70	41.99	42.89	42.67	43.22 42.80
31	39.69		39.44		40.02		40.74	42.17		42.78	

a Tape measurement.

79:149-1. Hugh O. Cobb. Formerly owned by National Fireworks Inc. 1.3 miles north of Brunswick and about 125 feet west of Brunswick Road. Records available: 1945-47, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 4	2.91	Sept. 15	4.36	Oct. 27	4.08	Dec. 8	3.88
18	4.67	29	3.98	Nov. 10	4.08	22	4.61
Sept. 1	4.35	Oct. 13	4.09	25	3.98		

79:167-1. City of Collierville. About 75 feet east of Main St. and about 750 feet south of State Highway 57, in engine room of waterworks. Records available: 1945-49.

Jan. 5	99.80	Apr. 12	100.52	July 20	98.94	Oct. 12	99.51
19	99.45	27	98.78	Aug. 4	99.07	26	99.20
Feb. 2	99.25	May 11	99.04	18	99.02	Nov. 9	99.03
16	99.27	26	97.88	Sept. 1	99.19	23	98.85
Mar. 2	99.20	June 8	98.91	14	99.12	Dec. 7	99.15
16	98.71	21	98.91	28	99.05	21	98.80

79:174-1. J. O. Goshorn Co. In Memphis about 250 feet south of Bodley Ave. and 500 feet east of S. Third St. Recording gage removed Jan. 31. Records available: 1946-49.

Jan. 4	a21.83	Jan. 25	a20.26	July 19	22.78	Oct. 11	23.45
5	21.87	26	19.78	26	23.03	18	23.55
11	a22.78	27	19.61	Aug. 2	22.97	25	22.60
12	22.69	28	20.51	9	23.57	Nov. 1	22.84
13	22.50	Apr. 22	21.30	16	23.71	8	23.10
14	22.32	28	21.68	23	23.78	15	23.17
15	22.14	June 7	22.40	30	23.60	22	23.49
16	21.98	15	20.67	Sept. 6	23.77	29	23.59
17	21.72	22	21.37	13	24.08	Dec. 6	23.74
18	a20.90	28	21.88	20	24.28	13	23.57
19	20.86	July 5	22.27	27	24.49	20	22.31
20	20.86	12	22.46	Oct. 4	24.54	27	21.99

a Tape measurement.

79:175-1. C. W. Bond. In Arlington, about 150 feet west of Chester St. and about 0.45 mile south of railroad depot. Records available: 1945-49.

Jan. 5	61.01	Apr. 27	60.13	July 20	60.52	Oct. 13	60.95
19	60.19	May 11	60.13	Aug. 4	60.57	27	60.90
Feb. 2	59.99	26	60.31	18	60.62	Nov. 10	61.03
16	62.56	June 8	60.23	Sept. 1	60.78	25	61.04
Mar. 2	62.65	21	59.95	15	60.96	Dec. 8	61.14
16	61.56	July 6	60.38	29	61.04	22	60.53
29	61.51						

79:176-1. Gulf Refining Co. In Memphis, about 750 feet south of Mallory Ave. and about 925 feet west of Fisher St. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	42.26	Mar. 22	43.54	Apr. 26	40.66	May 25	45.32
Feb. 15	43.41	29	43.94	May 3	42.42	June 7	45.55
22	42.73	Apr. 5	45.25	10	42.99	Dec. 20	44.65
Mar. 1	42.91	19	40.09	17	44.11	27	44.78
8	44.07						

79:193-1. National Cylinder Co. About 60 feet east of Tully St. and about 90 feet north of Sexton Ave. Drilled unused well, diameter 8 inches. Records available: 1949.

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	a90.43	86.2	90.9	86.1	83.2	85.3
2	....	....	90.9	83.5	85.8	84.5
3	....	....	....	85.0	85.5	84.4
4	....	89.8	....	84.8	85.8	78.6
5	....	90.6	a81.41	86.6	85.0	81.0
6	....	90.8	85.9	87.4	80.0	82.9
7	....	85.2	87.7	88.1	a81.5	83.8
8	94.5	a85.1	88.4	87.1	....	85.7
9	94.6	89.4	89.1	85.3	....	83.1
10	84.4	90.8	88.7	86.5	....	82.6
11	a84.62	....	86.5	88.0	....	80.3
12	....	....	86.5	86.8	....	82.4
13	....	....	88.7	89.0	80.2	82.1
14	89.2	87.7	89.0	89.0	82.8	83.6
15	89.4	a86.3	88.4	....	83.3	84.3
16	89.4	....	88.0	....	84.0	84.8
17	86.6	....	88.3	a83.14	84.3	85.4
18	a85.06	....	86.3	86.4	85.5	81.3
19	....	....	88.6	85.6	....	81.0
20	89.1	....	89.8	86.3	....	81.1
21	89.8	....	90.7	86.3	a79.66	82.8
22	89.8	89.8	90.8	85.4	82.1	82.8
23	89.1	88.9	91.0	82.8	82.7	82.9
24	83.9	89.9	89.9	84.0	82.5	82.6
25	81.4	90.0	86.7	85.3	80.6	74.7
26	....	89.7	87.4	84.9	82.3	70.9
27	....	89.9	89.4	86.5	79.7	74.8
28	....	....	89.7	85.7	81.1	77.3
29	....	a85.49	89.3	82.7	83.1	....
30	....	89.6	87.8	78.9	83.9	....
31	82.5	90.2		79.9		....

a Tape measurement.

## VIRGINIA

The two programs of water-level measurements, begun in June 1928 in cooperation with the Virginia Geological Survey, were continued in 1949. The wells in Arlington and Fairfax Counties in northern Virginia and those in the southeastern part of the State are listed separately in this report.

### NORTHERN VIRGINIA

By Rodney Hart

#### SCOPE OF WATER-LEVEL PROGRAM

A total of 114 individual measurements was made in six observation wells in northern Virginia in Arlington and Fairfax Counties, near Washington, D. C. Weekly measurements were continued in 1949 until the end of February when month-end measurements were begun. The 8-day recording gage was removed from the Bacon well in March 1949. The two 8-day rain gages, installed to obtain data for a study of the channel-storage method of determining effluent seepage in the Difficult Run basin, were removed.

#### FLUCTUATIONS OF WATER LEVELS

The water levels in the observation wells in the northern part of Virginia are noticeably affected by precipitation, being shallow wells underlain by crystalline rocks. The precipitation and departure from normal at Washington, D. C., in 1949, representative of the precipitation in the northern part of Virginia, are given for each month and for the year in the following table from records of the U. S. Weather Bureau:

Month	Recorded precipitation	Normal precipitation	Departure from normal	Accumulated departure from normal
January	5.08	3.55	+1.53	+1.53
February	3.21	3.27	-0.06	+1.47
March	3.96	3.75	+0.21	+1.68
April	2.01	3.27	-1.26	+0.42
May	5.65	3.70	+1.95	+2.37
June	1.85	4.13	-2.28	+0.09
July	4.57	4.71	-0.14	-0.05
August	4.57	4.01	+0.56	+0.51
September	3.55	3.24	+0.31	+0.82
October	3.21	2.84	+0.37	+1.19
November	0.74	2.37	-1.63	-0.44
December	1.72	3.32	-1.60	-2.04
Year	40.12	42.16	-2.04	-2.04

It will be noted that the precipitation was 2.04 inches below normal in 1949 as compared to the 14.15 inches above-normal precipitation recorded in 1948. This decrease in precipitation is reflected in a substantial net decline in water levels in most of the wells in the northern Virginia area.

The following table shows the water level for each well in early January and late December, the highest and lowest levels recorded during the year, the range in level, and the net change for the year.

Water levels in 6 observation wells in northern Virginia in 1949

Well	Jan. 3	Dec. 30	Net Change	Highest	Lowest	Range in level
Ross	19.13	23.97	-4.84	16.53	23.97	7.44
Halls Hill	21.28	25.72	-4.44	18.17	25.72	7.55
Jefferson	20.12	25.40	-5.28	18.87	25.49	6.62
Bell	.23	3.85	-3.62	.07	5.43	5.36
Swart	.60	1.39	-.79	.34	1.49	1.15
Bacon	11.75	17.63	-5.88	10.88	17.63	6.75

As indicated by this summary, the greatest decline in water level occurred in the Bacon well (Fairfax County well 1) where the water level was 5.88 feet lower at the end of the year than at the beginning. The greatest range in water-level fluctuation occurred in the Halls Hill well (Arlington County well 1) where the difference between the highest and lowest stages recorded during the year was 7.55 feet. The average net decline for the four deepest wells, the Bacon, Halls Hill, Jefferson, and Ross wells, was 5.11 feet which indicates a noticeable decrease in ground-water storage since December 1948. The highest water levels recorded during 1949 occurred during February in all of the wells with the exception of the Halls Hill well where the highest level for the year was recorded in late March and early April.

With the exception of the Bell, Jefferson, and Swart wells, the lowest water levels for the year 1949 were recorded in the other three wells at the end of December. The lowest stage in the Bell well occurred near the end of September, in the Jefferson well in late October, and in the Swart well near the end of November.

#### WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

##### Arlington County

1. Halls Hill well. On Lee Highway, at Langston School. Records available: 1932-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	21.28	Feb. 7	18.98	Apr. 29	18.26	Sept. 30	23.09
10	20.73	14	18.96	May 31	18.77	Oct. 31	23.69
17	20.59	21	18.89	June 30	20.07	Nov. 30	24.71
24	20.21	28	18.21	Aug. 1	21.00	Dec. 30	25.72
31	19.54	Mar. 30	18.17	Sept. 2	22.31		



2. Ross well. 1918 North Wayne St., Rosslyn. Records available: 1928-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	19.13	Feb. 7	17.05	Apr. 29	17.77	Sept. 30	22.60
10	18.26	14	16.83	May 31	18.67	Oct. 31	23.02
17	18.19	21	17.16	June 30	20.04	Nov. 30	23.54
24	18.32	28	16.53	Aug. 1	20.99	Dec. 30	23.97
31	17.46	Mar. 30	17.16	Sept. 2	21.99		

#### Fairfax County

1. Bacon well. About 2 miles west of Fairfax, at Fair Acres farm, on U. S. Highway 50. Records available: 1932-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	11.75	Feb. 7	10.96	Apr. 29	12.29	Sept. 30	16.91
10	11.18	14	10.99	May 31	13.06	Oct. 31	17.17
17	11.52	21	10.99	June 30	14.46	Nov. 30	17.44
24	11.44	28	10.88	Aug. 1	15.40	Dec. 30	17.63
31	11.05	Mar. 30	11.26	Sept. 2	16.27		

2. Bell well. At Ash Grove, about 1 miles northwest of Tysons Cross-roads on State Highway 7 (Leesburg Pike). Drilled well, diameter 2 inches, depth 9.28 feet, casing 2-inch galvanized pipe. Records available: 1932-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	0.23	Feb. 7	0.07	Apr. 29	0.99	Sept. 30	5.43
10	.23	14	.11	May 31	1.62	Oct. 31	2.52
17	.23	21	.22	June 30	3.08	Nov. 30	5.35
24	.05	28	.08	Aug. 1	2.87	Dec. 30	3.85
31	.17	Mar. 30	.40	Sept. 2	4.19		

3. Jefferson School well. In Falls Church, near southeast corner of Jefferson School. Records available: 1938-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	20.12	Feb. 7	18.94	Apr. 29	19.74	Sept. 30	25.35
10	19.59	14	18.87	May 31	20.35	Oct. 31	25.49
17	19.59	21	18.99	June 30	22.15	Nov. 30	25.30
24	19.52	28	18.90	Aug. 1	23.19	Dec. 30	25.40
31	19.10	Mar. 30	19.04	Sept. 2	24.65		

4. Swart well. On Swart farm, about 1.5 miles west of Fairfax, on U. S. Highway 50, at Difficult Run, about 50 feet north of the road and 162 feet west of Difficult Run. Records available: 1932-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	0.60	Feb. 7	0.34	Apr. 29	1.19	Sept. 30	1.42
10	.56	14	.55	May 31	1.25	Oct. 31	.80
17	.74	21	.65	June 30	1.25	Nov. 30	1.49
24	.47	28	.44	Aug. 1	1.21	Dec. 30	1.39
31	.61	Mar. 30	.80	Sept. 2	1.37		

#### EASTERN VIRGINIA

By Allen Sinnott

#### SCOPE OF WATER-LEVEL PROGRAM

The observation well program in eastern Virginia was continued in 1949 in cooperation with the State Geological Survey. A total of 297 measurements was made in 1949 in 9 observation wells, 3 of which were equipped with recording gages.

Reports on the following areas or subjects are in preparation:

Chemical character of ground water in the Coastal Plain of Virginia by D. J. Cederstrom; to be published as Bulletin 68 of the Virginia Geological Survey.

Public and industrial ground-water supplies of the Roanoke area by Bruce F. Latta.

Geology and ground-water resources of the York-James peninsula by D. J. Cederstrom.

Geology and ground-water resources of the Eastern Shore peninsula by Allen Sinnott.

Quantitative ground-water studies in the Franklin area, southeastern Virginia by Allen Sinnott.

Fluoride in ground water in the Coastal Plain of Virginia by Allen Sinnott and George W. Whetstone.

Geology and ground-water resources of the Coastal Plain in northeastern Virginia by Allen Sinnott.

#### FLUCTUATIONS OF WATER LEVELS

The average precipitation for the State, 45.38 inches, was 7 percent above normal.

Accomack County.--The water level in the observation well at Chincoteague Naval Auxiliary Air Station has shown no substantial change since the previous year.

Chesterfield County.--There was little change in water level in well 36 during 1949, the total fluctuation being less than 2 feet. At the end of the year the water level was a little more than a foot below the 1948 year-end water level.

The rainfall at Richmond was 4.85 inches above normal during 1949, compared with 10.49 inches above normal during 1948. Abnormally high rainfall at Richmond during August and October is reflected in water levels about a foot above average during the last four months of 1949.

Isle of Wight County.--The water level in well 161 did not continue its decline during 1949. Between March and November 1948 the water level exceeded 20 feet below the land surface several times, but during 1949 the lowest level recorded was 19.52 feet.

Prince George County.--The water level in well 13, at the Old Dominion Water Corporation in Hopewell, averaged 36 feet below the land surface during the first 5½ months of the year. Artificial recharge (in order to store cold water underground for reuse during the summer) was carried on from January to March at the nearby Solvay Process Company. The water level did not decline substantially until May 20, when summer pumping at the Solvay plant began, and by late June the water level had dropped to nearly 50 feet below the surface. The pumping

ceased about November 14 and the water level recovered gradually during December to about 37 feet below the surface at the end of the year.

Southampton County.--The water level in well 29 at Sebrell remained about the same during the entire year. Four measurements made in well 89 at Courtland show that a slight rise in water level has occurred since measurements were last made in this well in 1946. Measurements in the Town well (205) at Franklin showed that during the first half of 1949 the water level was about 3 feet lower than the corresponding period in 1948. The water level remained about the same for the remainder of the year, but recovered toward the end of December so that it was about 4 feet above the year-end level for 1948.

Sussex County.--The total fluctuation in well 90 at Wakefield was about  $2\frac{1}{4}$  feet. During 1949 the over-all decline in water level was about half a foot compared with 1948, presumably indicating that the heavy industrial withdrawals at Franklin, 20 miles to the south-southeast, had less effect than in previous years.

Warwick County.--In Milstead well 1, at Fort Eustis, on the lower York-James peninsula, the artesian head was above land surface throughout the year, the lowest level being only slightly less than 2 feet above the surface in late June.

#### WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS\*

##### Accomack County

B-8. Naval Auxiliary Air Station, Chincoteague. Drilled unused well, diameter 8 inches, depth 60 feet. Measurements by Navy Department. Records available: 1948-49. Jan. 3, 25.47; Feb. 3, 25.94; Mar. 3, 25.93; Apr. 4, 24.98; May 5, 25.89; June 3, 25.05; Aug. 3, 25.36; Sept. 7, 24.41.

##### Chesterfield County

36. Pilcher well, at Matoaka Manor, 3 miles north of Petersburg. Drilled unused well, diameter 6 inches, depth 139 feet. Taps water in granitic basement rock. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	14.70	Apr. 1	14.98	June 30	16.00	Sept. 28	15.47
Feb. 1	14.45	30	15.62	Aug. 3	15.40	Nov. 2	15.63
25	14.05	May 31	15.86	31	15.53	Dec. 5	15.43

##### Isle of Wight County

161. Camp Manufacturing Co., Inc. Formerly Chesapeake-Camp Corp. Drilled unused well, diameter 6 to 4 inches, depth 605 feet. Taps artesian water in Cretaceous sands. Equipped with recording gage. Records available: 1942-49.

\*Observation wells in Virginia are listed alphabetically by counties and numerically within each county.

161--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	18.50	Apr. 11	19.18	July 11	16.10	Oct. 3	19.25
10	18.51	18	18.14	18	17.80	10	19.20
17	18.57	25	18.89	25	18.64	17	19.11
24	18.66	May 2	18.99	Aug. 1	19.13	24	19.17
31	18.73	9	19.07	8	19.23	31	18.66
Feb. 7	18.65	16	19.03	15	19.05	Nov. 7	18.47
14	18.67	23	19.23	22	19.16	14	18.33
21	18.62	30	19.33	29	19.21	21	18.19
28	18.51	June 6	19.32	Sept. 5	19.24	28	18.02
Mar. 7	18.89	13	15.78	12	19.37	Dec. 5	17.76
14	18.99	20	19.00	19	19.30	12	17.50
21	19.06	27	19.52	26	19.31	19	17.25
28	19.02	July 5	19.05	28	19.21	26	13.70
Apr. 4	19.18						

a After large-yield wells at plant had been shut down for 3 days.

Prince George County

13. Old Dominion Water Corp. In Hopewell. Drilled unused well, diameter 6 inches. Equipped with recording gage. Records available: 1939-49.

Jan. 7	35.41	Apr. 8	35.41	July 8	49.46	Oct. 7	49.26
14	35.76	15	35.31	15	48.59	14	49.21
21	36.11	22	35.66	22	49.91	21	48.96
28	35.31	29	35.76	29	49.71	28	48.16
Feb. 4	35.51	May 6	35.61	Aug. 5	49.81	Nov. 4	46.46
11	34.41	13	35.16	12	49.68	11	46.06
18	35.66	20	35.21	19	49.71	18	41.81
25	35.46	27	42.41	24	49.46	25	39.26
Mar. 4	35.66	June 3	46.21	Sept. 2	49.66	Dec. 2	38.36
11	35.26	10	47.91	9	49.31	9	37.86
18	35.41	17	48.51	16	49.21	16	37.36
25	35.71	24	49.06	23	49.16	23	36.56
Apr. 1	35.36	July 1	51.51	30	49.36	30	36.76

Southampton County

29. Virginian Railway. At Sebrell. 300 feet east of station, between tracks. Drilled well, diameter 10 inches, depth 344 feet. Records available: 1942-49.

Feb. 1	31.30	May 31	31.02	July 8	31.01	Sept. 28	31.05
25	31.05	June 30	31.01	Aug. 4	31.14	Nov. 2	31.03
Apr. 1	30.96	July 5	30.87	31	30.83	Dec. 5	31.23
30	31.05						

89. Southampton County Courthouse. At Courtland. Jetted well, diameter 2 inches, depth 125 feet. Records available: 1942-46, 1949. Aug. 4, 9.63; Aug. 31, 9.00; Sept. 28, 9.66; Dec. 5, 9.67.

205. Town of Franklin. Jetted unused well, diameter 4 inches, depth 354 feet. Records available: 1942-49.

Jan. 1	26.5	Apr. 9	26.5	July 9	21.3	Oct. 8	28.0
8	27.0	16	26.5	13	27.0	15	27.8
15	26.8	23	27.5	23	28.3	22	28.0
22	27.0	30	27.8	30	28.3	29	27.8
29	26.7	May 7	27.5	Aug. 6	28.2	Nov. 5	27.5
Feb. 5	26.3	14	26.8	13	27.5	12	26.9
12	26.5	21	26.0	20	26.9	19	27.5
19	26.7	28	27.5	27	27.5	26	26.9
26	26.5	June 4	27.3	Sept. 3	28.0	Dec. 3	26.5
Mar. 5	27.0	11	22.8	10	27.8	10	26.0
12	27.5	18	28.0	17	28.0	17	26.5
19	28.5	25	28.5	24	27.5	24	24.5
26	27.5	July 2	27.8	Oct. 1	27.8	31	21.5
Apr. 2	26.8						

(Water levels for 1947 and 1948 in error, 1.0 foot should be added to each measurement.)

Sussex County

90. Jeb S. White well. In Wakefield. Drilled unused well, diameter 3 inches, depth 225 feet. Taps artesian water in Cretaceous sands. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	72.73	Apr. 4	73.35	July 5	73.94	Oct. 10	73.46
10	73.00	11	72.74	11	73.43	17	72.90
17	72.66	18	72.48	19	73.14	24	72.82
24	73.03	25	73.08	28	74.00	31	72.76
31	72.58	May 2	73.08	Aug. 1	74.16	Nov. 7	73.24
Feb. 7	72.84	9	73.20	8	72.24	14	72.83
14	72.86	16	72.97	15	73.77	21	73.20
21	72.70	23	73.15	22	73.35	28	72.81
28	72.42	30	73.24	29	73.31	Dec. 6	73.23
Mar. 7	72.44	June 6	73.67	Sept. 12	73.43	13	72.85
14	73.44	13	73.75	19	73.62	19	72.70
21	72.90	20	73.37	27	73.52	27	73.20
28	72.64	27	74.14	Oct. 3	73.07		

Warwick County

Milstead 1. At Fort Eustis. Near sewage disposal plant. Drilled unused well, diameter 10 inches, depth 370 feet. Equipped with recording gage. Records available: 1941-49.

Jan. 6	+5.25	Apr. 8	+4.62	July 8	+3.00	Oct. 11	+3.86
13	+5.25	15	+5.10	15	+2.85	14	+3.90
21	+5.01	22	+4.10	22	+2.65	21	+4.20
28	+5.46	29	+4.15	29	+2.95	28	+3.70
Feb. 4	+5.13	May 6	+3.95	Aug. 5	+2.48	Nov. 4	+3.85
11	+4.95	13	+4.20	12	+3.10	10	+3.93
18	+4.89	20	+4.20	19	+3.20	18	+3.86
25	+5.25	27	+3.95	26	+3.42	25	+4.18
Mar. 4	+5.15	June 3	+3.73	Sept. 2	+2.84	Dec. 2	+3.70
11	+5.33	10	+3.45	9	+3.75	9	+3.85
18	+5.15	17	+3.70	19	+3.33	16	+3.68
25	+5.04	24	+1.95	27	+3.80	23	+3.72
Apr. 1	+5.47	July 1	+2.85	Oct. 4	+3.65	30	+3.75

## WEST VIRGINIA

By R. C. Smith

### SCOPE OF WATER LEVEL PROGRAM

The observation-well program in West Virginia, begun in 1941 in cooperation with the State Geological and Economic Survey, was continued in 1949. As a part of the ground-water investigation, 16 observation wells were maintained during the year. Recording gages were operated on 3 wells. 383 measurements by the wetted-tape method were made in 12 wells, and the rate of flow of 1 flowing well was measured at irregular intervals throughout the year.

### FLUCTUATIONS OF WATER LEVELS

The water table as observed in wells 9-6-46 in Morgantown, 39-1-7 in Buffalo, and 40-3-1 near Nitro, was generally high as the year opened due to above-normal precipitation in November and December 1948 and January 1949. The water level in well 39-1-7 rose to a new high (0.40) on January 22. On February 21 the water level in well 40-3-1 rose to 2.22. (fig.16). A deficiency in precipitation during March, April, and May caused a general decline in the water table. Although there was an excess of 1.34 inches of rain in June, most of the water was captured by growing plants and the water table continued to decline through the summer and fall months. Local heavy rains in July caused a temporary rise in the water level in well 40-3-1. The end of the growing season and slightly above-normal precipitation at the year end caused the water table to return to about the same level as it was in January.

The fluctuation of water levels in wells in the alluvial gravels along the Ohio River are related primarily to variations in the stage of the adjacent river, as shown in figure 15. The water levels generally rise during periods of high river stage in the spring and decline more or less regularly until the river level again rises substantially above pool stage. The Ohio River did not reach flood stage in 1949, and the river stages during the first quarter of the year were generally lower than during the first

quarter of 1948. The river was in pool stage most of the last half of the year, and consequently the water levels in the adjacent alluvium were generally lower than in 1948. The water level in well 50-1-5, at Kenova, in an area not affected by pumping, showed a net decline for 1949 of 2.22 feet (fig.15).

Wells 27-3-20 and 27-3-22 are in the municipal well field at Parkersburg. A decrease in nearby pumping during August and September caused a corresponding rise in the water levels in the wells. The water level in well 27-3-22 showed a net rise for 1949 of 1.23 feet (fig.15).

Fluctuations in water level at wells drilled to artesian aquifers, as observed in West Virginia, are caused by variations in pumpage from the formations. As the intake areas of the formations are generally distant from the localities where the fluctuations are observed, the variations in precipitation for short periods are not reflected in the water-level records.

The water levels in the bedrock wells were generally high at the beginning and end of 1949. The water level in well 40-5-14 at Charleston, declined during the summer months because of nearby pumping for air conditioning but rose at the end of the year and showed a slight net rise (0.10 foot) for 1949 (fig.16). The water level in well 9-6-27, at Morgantown, which had been on general decline, has shown a continuous rise since 1945 due to the decrease in nearby pumping (fig.16). It reached a high (96.59) for the period of record (1941-49) on December 19. The water level in well 9-6-45 also reached a record high (10.10) at the beginning of the year and had almost returned to it at the end of the year.

Water levels in two of the artesian observation wells did not conform to the general pattern. The water level in well 11-3-8 at Masontown, which may be affected by pumping, dropped to a record low (22.43) on October 25, and showed a slight net decline (0.62 foot) for the year (fig.16). The water level at well 39-1-6A, which has been declining continuously since 1946, reached a record low (86.44) on July 8. The decline in water level is due to overpumping from the nearby municipal wells supplying Buffalo. Greatly decreased pumping at the end of the year caused the water-level record to show a net rise for the year of 7.42 feet, but the period of record shows a net decline of 38.39 feet.

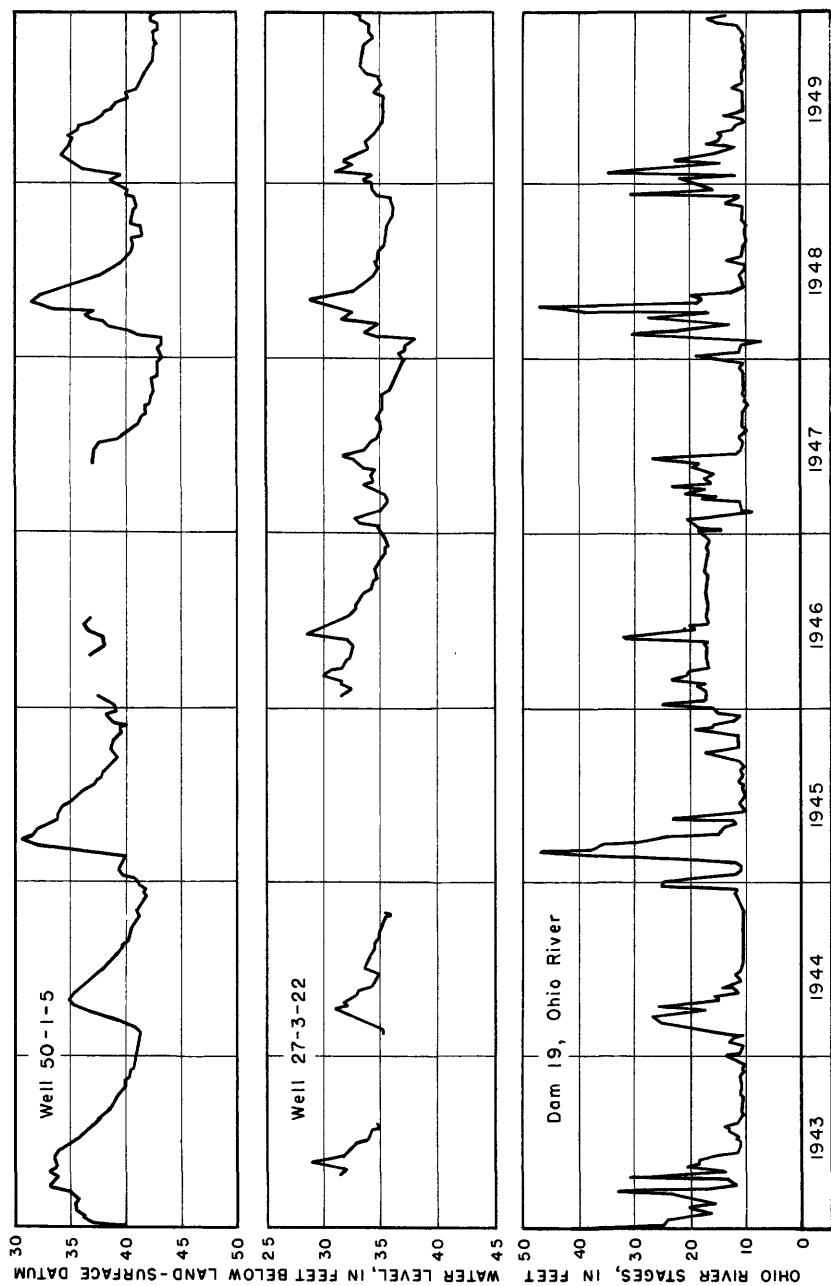


Figure 15.--Graphs showing fluctuations of water levels in alluvium and stage of Ohio River at Lum 19.



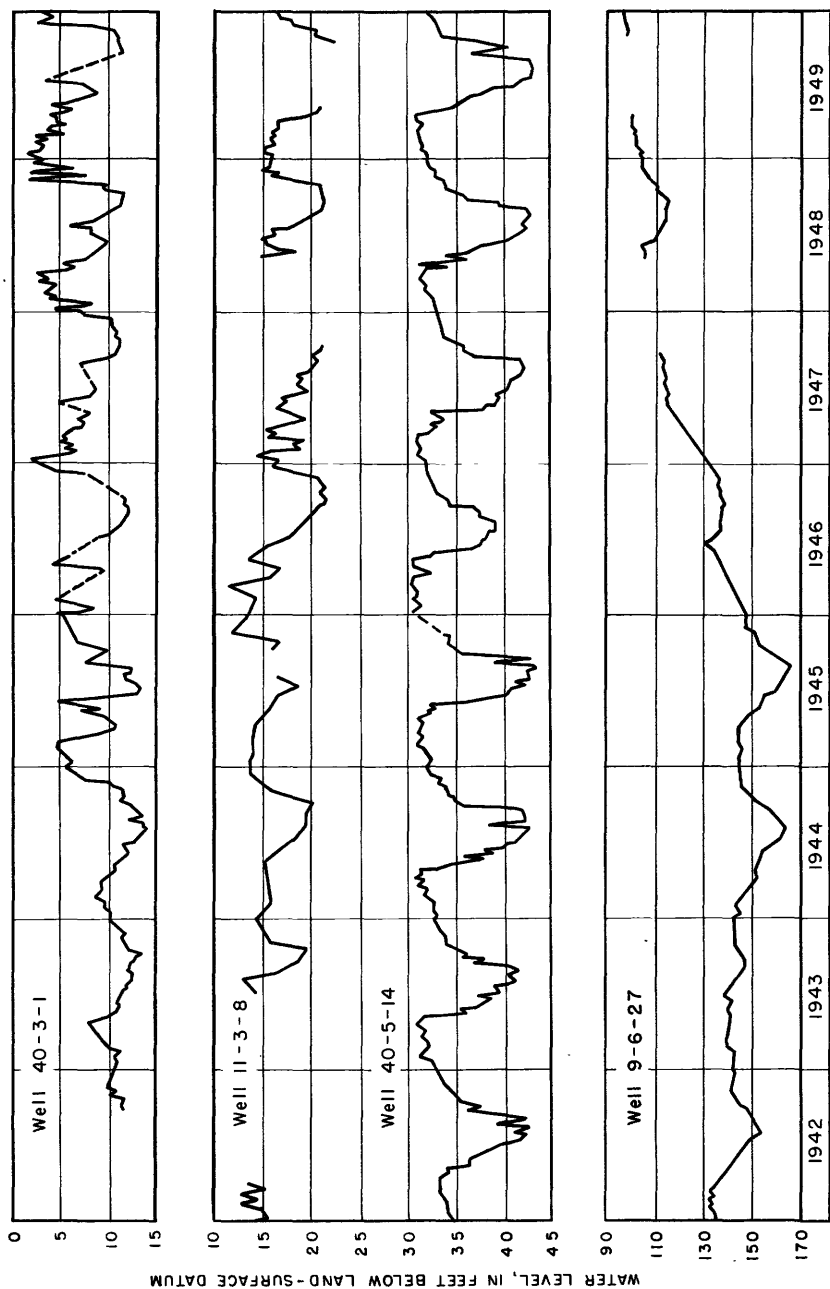


Figure 16.--Graphs showing fluctuations of water levels in four observation wells.

WELL-NUMBERING SYSTEM

Observation wells in West Virginia are assigned three-part numbers indicating their location by county and magisterial district. For this purpose the counties have been numbered consecutively in a general southward direction, beginning with Hancock County, which is at the northernmost tip of the State; the magisterial districts within each county are numbered consecutively according to the same plan; then each well within the district is numbered consecutively as they are surveyed. Thus, the number 9-6-27, assigned to a well in Morgantown, indicates that it is the twenty-seventh well in district 6 (Morgan District) of county number 9 (Monongalia County).

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTSFayette County

42-4-1. Baldwin Supply Co. 407 Fourth Ave., Montgomery. Drilled unused well, diameter 6 inches, depth 95 feet. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	22.21	Mar. 28	22.83	July 11	25.78	Oct. 10	34.36
10	23.10	Apr. 3	22.98	18	25.30	17	25.15
17	22.48	25	23.86	25	25.62	24	24.85
24	22.32	May 2	22.71	Aug. 1	25.74	31	24.99
31	22.64	9	23.51	8	27.20	Nov. 7	24.80
Feb. 7	23.14	16	23.28	15	26.91	14	25.45
15	22.66	31	23.28	22	25.24	21	23.72
21	22.55	June 6	23.04	29	25.19	28	24.05
28	22.44	13	23.98	Sept. 6	24.57	Dec. 5	23.25
Mar. 7	22.85	20	23.71	19	24.70	12	23.29
14	22.39	27	29.10	26	24.95	27	22.43
21	23.09	July 5	28.32	Oct. 3	24.75		

42-4-2. Virginian Railway Co. At Deepwater, 200 feet west of overpass. Dug unused well, diameter 36 inches, depth 14 feet. Records available: 1942-45. No measurement made in 1949.

Harrison County

12-2-26. City of Lumberport. At Lumberport along Jones Creek, 0.5 mile northwest of State Highway 20. Drilled unused well, diameter 6 inches, depth 140 feet. Records available: 1942. No measurement made in 1949.

Kanawha County

40-3-1. L. T. Smith. At Nitro, along 40th St., 0.45 mile west of U. S. Highway 35. Dug unused well, diameter 24 inches, depth 17 feet. Records available: 1942-49.

Jan. 4	2.10	Mar. 14	5.48	May 28	5.58	Oct. 29	10.71
12	3.01	23	3.34	June 18	8.30	Nov. 5	10.98
17	2.29	29	3.70	25	8.54	12	10.78
22	1.40	Apr. 4	5.57	30	7.84	18	10.58
28	1.64	11	4.37	July 13	7.03	23	9.88
Feb. 2	2.65	23	4.36	22	3.39	29	8.23
15	3.31	29	3.56	Sept. 29	11.32	Dec. 3	3.83
21	2.22	May 4	5.21	Oct. 5	11.31	10	2.44
28	3.60	10	6.07	15	11.32	22	4.17
Mar. 5	2.39	20	3.83	22	10.95	29	3.07

40-5-14. Coyle & Richardson Dept. Store. Dickinson and Lee Sts. At Charleston. Drilled unused well, diameter 8 inches, depth 208 feet. Records available: 1941-49.

Lowest daily water level, from recorder graphs

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.90	31.47	31.25	31.57	30.70	34.72	38.97	41.90	39.81	37.46	34.17	32.93
2	31.80	31.48	31.23	31.60	31.18	35.92	39.02	42.08	40.17	35.66	33.90	32.83
3	31.99	31.43	31.16	31.05	31.37	35.81	36.30	41.17	41.79	37.68	33.58	.....
4	31.99	31.45	31.13	31.07	32.12	35.95	36.27	42.32	37.90	38.08	33.55	.....
5	31.99	31.45	31.03	31.02	33.20	34.36	38.72	42.49	37.32	38.10	33.57	.....
6	31.95	31.42	31.03	31.00	33.30	34.83	38.27	42.18	42.18	38.30	33.57	32.65
7	31.62	31.61	31.19	30.98	33.05	36.16	41.06	38.10	40.02	39.06	33.50	32.65
8	31.55	31.46	31.12	30.99	32.50	36.37	.....	41.44	40.54	40.55	33.52	32.90
9	31.67	31.52	30.98	30.98	33.25	36.37	.....	42.37	39.05	36.04	33.52	32.90
10	31.93	31.61	31.14	30.92	33.65	36.32	.....	41.50	38.98	40.35	33.43	32.82
11	31.94	31.61	31.13	31.01	33.30	36.72	.....	42.00	37.31	40.35	33.43	32.79
12	32.02	31.50	31.04	30.90	34.09	34.65	.....	42.33	39.42	39.67	33.35	32.68
13	32.02	31.38	31.03	30.85	32.53	36.78	.....	42.58	38.78	38.75	33.30	32.60
14	32.02	31.36	30.97	30.95	32.73	37.02	.....	38.30	39.17	38.45	33.35	32.35
15	32.02	31.35	31.13	30.38	31.77	37.27	.....	42.30	38.08	38.25	33.41	32.23
16	31.93	31.26	31.12	30.48	32.57	37.22	.....	42.52	39.83	36.01	33.41	32.23
17	32.02	31.10	30.98	30.42	33.42	37.09	.....	41.59	41.08	37.65	33.35	32.30
18	32.02	31.04	31.08	30.67	35.06	37.52	41.42	42.41	37.18	36.02	33.37	32.30
19	32.02	31.03	31.01	30.82	35.22	35.30	41.51	42.56	40.33	35.74	33.33	32.43
20	32.02	31.08	30.83	30.75	35.35	37.01	40.72	39.32	37.49	35.73	33.10	32.42
21	31.94	31.13	30.73	30.68	35.17	37.75	41.71	37.42	36.76	35.64	33.28	32.35
22	31.90	31.10	30.73	30.68	33.67	38.28	41.94	39.29	38.65	36.30	33.28	32.30
23	31.83	31.18	30.91	30.63	35.20	37.90	41.83	41.23	38.39	35.71	33.13	32.33
24	31.58	31.13	30.88	30.71	35.10	38.35	37.67	41.37	36.35	35.41	33.10	32.30
25	31.59	31.25	30.88	30.75	34.03	38.47	41.73	42.10	36.21	35.35	33.05	32.12
26	31.48	31.23	30.85	30.76	33.40	36.05	42.00	42.40	36.09	35.41	33.04	32.07
27	31.37	31.05	30.71	30.75	33.14	38.15	40.61	42.58	35.94	35.33	32.93	32.05
28	31.09	31.18	30.96	31.13	33.50	38.58	42.20	38.22	35.88	35.33	32.95	.....
29	31.20		30.96	30.87	33.65	38.70	41.94	40.21	35.60	34.80	32.95	32.07
30	31.21		31.02	30.75	33.70	38.92	42.30	42.00	35.61	34.42	32.93	32.15
31	31.35		31.03		34.30		37.97	41.04		34.23		32.15

Mason County

38-3-3. West Virginia Industrial School. At Lakin. Dug unused well, diameter 6 inches, depth 91 feet. Records available: 1942-44. No measurement made in 1949.

38-3-4. V. K. Smith. At Kaylong, 1 mile south of post office. Dug unused well, diameter 30 inches, depth 67 feet. Records available: 1942-45. No measurement made in 1949.

38-3-5. Homer Smith. At Kaylong, 1.2 miles south of Lakin. Dug well, diameter 30 inches, depth 67 feet. Records available: 1942-44. No measurement made in 1949.

Monongalia County

9-2-2. Earl Miller. At sawmill in Blacksville. (The town of Blacksville is partly in Monongalia County, W. Va., and partly in Greene County, Pa. Well 9-2-2 is actually in Pennsylvania a few feet north of the W. Va. boundary. It is listed in this report with W. Va. wells because Blacksville post office is in W. Va.) Drilled well, diameter 6 inches, depth 40 feet. Records available: 1941, 1943-45, 1948-49. Feb. 24, 12.33; Apr. 19, 13.06; May 19, 15.46; Oct. 5, 14.91; Oct. 25, 16.04; Dec. 7, 17.29; Dec. 13, 14.18.

9-6-1. Baltimore & Ohio Railroad. At Morgantown, at mouth of Aaron Creek. Formerly listed as being in Sabraton; now included within Morgantown city limits. Flowing artesian well. Records available: 1941-49.

9-6-1--Continued.

## Rate of flow, in gallons a minute

Date	Rate of flow	Date	Rate of flow	Date	Rate of flow	Date	Rate of flow
Jan. 3	26.5	Feb. 28	27.0	Apr. 18	27.0	Nov. 7	19.5
10	26.0	Mar. 7	26.5	25	25.0	21	16.5
17	26.0	15	26.5	May 2	27.5	28	19.5
24	26.0	21	26.5	19	26.0	Dec. 5	19.0
Feb. 7	26.0	28	26.0	Oct. 5	18.0	12	21.0
15	26.5	Apr. 4	25.5	25	18.0	19	20.0
21	26.5	11	26.0	Nov. 1	19.5		

9-6-27. T. J. Johnson. Foundry St., Morgantown. Records available: 1941-49. Drilled well, diameter 10 inches, depth 875 feet.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	104.15	Feb. 21	101.25	Apr. 4	100.05	Nov. 7	97.52
10	103.58	28	101.45	11	99.74	21	97.84
17	102.87	Mar. 7	100.89	18	99.38	28	97.35
23	103.10	15	100.50	25	99.55	Dec. 5	97.51
Feb. 7	101.65	21	101.26	May 2	99.34	12	97.16
15	101.54	28	100.33	Nov. 1	97.33	19	96.59

9-6-45. Deckers Creek Sand Co. At Greer, below sand quarry. Drilled unused well, diameter 8 inches, depth 105 feet. Records available: 1941-45, 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	10.72	Feb. 28	10.40	Apr. 18	10.63	Nov. 7	11.44
10	10.67	Mar. 7	10.52	25	10.88	21	11.67
17	10.67	15	10.58	May 2	10.90	28	11.45
24	10.10	21	10.58	19	11.16	Dec. 5	11.29
Feb. 7	10.44	28	10.70	Oct. 5	16.64	12	10.90
15	10.64	Apr. 4	10.66	25	15.48	19	10.50
21	10.26	11	10.59	Nov. 1	11.55		

9-6-46. W. L. Madire. 132 Prairie St., Morgantown, about 100 feet southeast of corner of Prairie St. and University Ave. Records available: 1943-45, 1947-49. Dug unused well, diameter 30 inches, depth 16 feet.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	8.09	Mar. 21	8.49	Oct. 25	10.72	Nov. 28	14.67
24	6.15	Apr. 4	10.04	Nov. 1	14.70	Dec. 5	14.34
Feb. 7	6.89	18	10.60	7	14.56	12	14.05
21	6.20	May 2	13.18	21	14.61	19	11.24
Mar. 7	8.86						

Preston County

11-3-3. Preston County Coal & Coke Co. At Cascade, 0.7 mile east of post office. Drilled unused well, diameter 8 inches, depth 102 feet. Records available: 1941-46. No measurement made in 1949.

11-3-3A. Preston County Coal & Coke Co. At Cascade. Shallow dug well, diameter 14 inches, depth 7 feet. Records available: 1941-43, 1946. No measurement made in 1949.

11-3-8. G. E. Lemmons. East Depot St., Mason town. Drilled well, diameter 8 inches, depth 785 feet. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	15.81	Feb. 28	15.60	Apr. 18	17.76	Nov. 7	20.14
10	15.82	Mar. 7	16.31	25	19.21	21	20.69
17	16.00	15	15.89	May 2	20.23	28	19.41
24	15.04	21	16.45	19	20.71	Dec. 5	18.25
Feb. 7	15.24	28	16.68	Oct. 25	22.43	12	18.05
15	16.42	Apr. 4	16.62	Nov. 1	21.53	Dec. 19	17.03
21	15.72						

11-3-9. Martin L. Massie. East end of E St., Masontown. Drilled domestic well, diameter 5 inches, depth 36 feet. Records available: 1941-44. No measurement made in 1949.

11-3-14. Belfort Corp. At Reedsville, near plant. Drilled unused well, diameter 4 inches. Records available: 1942-43, 1945-46, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 26	+0.01	Oct. 5	1.07	Nov. 7	0.53	Dec. 5	0.56
Apr. 20	.39	25	.53	21	.80	12	.23
May 19	.51	Nov. 1	.61	28	.79	19	.46

11-5-10. Terra Alta water Board. In Terra Alta, about 500 feet east of State Secondary Highway 53, between the Baltimore & Ohio Railroad tracks and Snowy Creek. Drilled unused municipal well, diameter 8 inches, depth 125 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	0.16	Oct. 5	18.17	Nov. 7	2.31	Dec. 5	2.19
Mar. 26	1.28	25	10.29	21	4.36	12	2.37
Apr. 20	2.08	Nov. 1	5.95	28	3.84	19	1.97
May 19	10.75						

#### Putnam County

39-1-6. Town of Buffalo. At Buffalo, near water works. Drilled unused well, diameter 8 inches, depth 110 feet. Records available: 1943-45. No measurement made in 1949.

39-1-6A. Town of Buffalo. East end of Sycamore St., Buffalo. Drilled unused well, diameter 9 inches, depth 156 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	77.90	Apr. 16	78.46	Aug. 6	77.42	Oct. 22	74.41
15	75.90	23	78.48	13	75.48	29	73.49
22	75.47	30	77.47	20	73.44	Nov. 5	71.47
29	74.10	May 7	81.41	27	74.44	12	71.30
Feb. 5	76.44	14	80.47	Sept. 3	74.44	19	69.43
19	75.60	28	80.41	10	74.50	26	69.42
Mar. 5	75.74	June 11	80.50	17	75.48	Dec. 3	69.47
12	76.80	18	79.46	24	75.47	10	69.43
19	75.45	July 8	86.44	Oct. 1	79.41	17	71.42
26	76.41	16	80.41	8	75.42	24	70.40
Apr. 4	78.48	23	78.63	15	74.44	31	70.48
9	78.42	30	77.45				

39-1-7. C. C. Wears. At Buffalo, at south edge of town, about 150 feet east of U. S. Highway 35. Dug unused well, diameter 20 inches, depth 26 feet. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	1.65	Apr. 23	2.42	July 23	7.63	Oct. 15	12.61
15	2.64	30	1.61	30	9.65	22	12.61
22	+4.40	May 7	3.52	Aug. 6	10.50	29	12.61
29	1.20	14	5.64	13	.64	Nov. 5	8.65
Feb. 5	2.70	21	6.30	20	3.68	12	11.10
19	1.60	28	1.64	27	9.61	19	11.64
Mar. 5	.69	June 4	3.68	Sept. 3	10.50	26	10.64
12	1.67	11	7.82	10	11.62	Dec. 3	3.53
19	1.65	18	5.67	17	13.64	10	+4.40
26	1.62	25	8.68	24	12.08	17	1.62
Apr. 2	2.58	July 9	9.61	Oct. 1	10.61	24	+4.40
9	1.68	16	7.69	8	11.68	31	2.05
16	1.62						

#### Wayne County

50-1-5. Ashland Oil & Refining Co. In Kenova, at refining plant. Drilled unused well, diameter 6 inches, depth 73 feet. Records available: 1942-46, 1948-49.

50-1-5--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	38.60	Apr. 15	34.97	July 8	40.18	Oct. 7	42.39
14	38.68	22	35.39	15	39.89	21	42.43
21	39.56	29	35.64	22	40.89	28	42.52
28	38.14	May 6	35.77	29	41.02	Nov. 4	42.39
Feb. 4	36.04	13	36.77	Aug. 5	41.16	14	42.56
12	35.43	20	37.22	12	41.31	19	42.39
17	35.22	27	37.87	27	41.70	26	42.83
Mar. 4	34.31	June 4	38.14	Sept. 2	41.70	Dec. 1	42.79
11	34.35	10	38.58	9	42.00	9	42.79
25	34.87	17	38.79	16	42.10	16	42.02
Apr. 1	34.97	24	39.22	23	42.33	23	42.02
8	35.18	July 2	40.16	30	42.39	30	42.77

50-1-5A. Ashland Oil & Refining Co. In Kenova, at refining plant. Drilled unused well, diameter 10 inches, depth 42 feet. Records available: 1947-48. No measurement made in 1949.

Wood County

27-3-20. City of Parkersburg well 4. In Parkersburg, in city well field. Drilled unused well, diameter, 18 inches, depth 57 feet. Records available: 1943-49.

Lowest daily water level, from recorder graph

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	40.54	40.56	40.27	40.05	36.93	37.07	38.28	37.60
2	.....	40.64	40.68	40.27	40.08	36.84	37.08	38.37	38.07
3	.....	40.65	40.77	40.21	39.94	36.79	37.08	38.46	38.17
4	.....	40.64	40.81	40.11	39.85	36.74	37.06	38.51	38.18
5	.....	40.67	40.82	40.02	39.80	37.06	37.10	38.58	38.14
6	.....	40.69	40.82	40.07	39.80	37.21	37.14	38.57	38.12
7	.....	40.76	40.91	40.17	39.71	37.14	37.19	38.57	38.04
8	.....	40.82	40.98	40.20	39.57	37.01	37.21	38.79	38.04
9	.....	40.86	40.98	40.09	39.52	36.87	37.21	38.85	38.01
10	39.66	40.93	41.00	40.01	39.49	36.84	37.23	38.87	37.96
11	39.70	40.93	40.93	39.89	39.40	37.05	37.23	38.87	37.93
12	39.78	40.86	40.91	39.77	39.52	36.77	37.31	38.89	37.93
13	39.97	40.87	40.85	39.15	39.54	36.79	37.33	38.93	37.40
14	39.96	40.94	40.85	38.82	39.57	36.82	37.33	38.95	37.28
15	39.72	40.95	40.81	38.64	39.57	36.76	37.37	39.00	36.86
16	39.89	40.96	40.74	38.47	39.57	36.77	37.41	38.98	36.29
17	39.92	40.96	40.66	38.26	39.51	36.84	37.43	38.86	36.39
18	40.17	40.96	40.66	38.10	39.48	36.78	37.40	38.66	36.87
19	40.40	40.91	40.30	38.00	39.43	36.76	37.37	38.48	36.83
20	41.03	40.96	40.26	37.97	39.52	36.78	37.36	38.27	36.68
21	40.43	40.93	40.32	38.02	39.50	36.79	37.30	38.16	36.66
22	40.44	40.81	40.32	38.17	39.21	36.76	37.34	38.12	36.79
23	40.46	40.76	40.41	38.22	38.72	36.84	37.31	37.98	36.97
24	40.42	40.53	40.46	38.42	38.02	36.86	37.26	37.91	37.03
25	40.35	40.46	40.48	39.01	37.72	37.04	37.40	37.88	36.53
26	40.25	40.27	40.47	39.31	37.50	36.84	37.68	37.92	36.75
27	40.31	40.33	40.59	39.52	37.28	36.82	37.79	37.83	37.02
28	40.37	40.37	40.29	39.60	37.11	36.87	37.92	37.75	37.03
29	40.40	40.48	49.27	39.83	37.10	37.05	38.04	37.72	37.07
30	40.39	40.51	40.24	40.06	37.04	37.07	38.07	37.62	37.05
31	40.40	40.52		40.05	36.90		38.26		37.20

27-3-22. City of Parkersburg test well F. In Parkersburg, in city well field. Drilled unused well, diameter 5 inches, depth 55 feet. Records available: 1943-44, 1946-49.

Lowest daily water level, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.03	.....	31.44	33.54	34.44	34.93	35.14	34.85	33.37	33.14	33.73	33.62
2	33.93	.....	31.61	33.54	34.51	34.98	35.13	34.90	33.31	33.13	33.74	33.77
3	33.90	.....	31.93	33.47	34.58	35.05	35.13	34.91	33.23	33.12	33.82	33.80
4	34.08	.....	32.11	33.46	34.60	35.05	35.08	34.92	33.17	33.10	33.84	33.78

27-3-22--Continued.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	34.12	.....	32.21	33.41	34.61	35.08	35.05	34.91	33.17	33.12	33.93	33.79
6	34.04	.....	32.63	33.69	34.61	35.10	35.04	34.92	33.25	33.15	33.89	33.81
7	33.60	30.63	32.67	33.67	34.70	35.21	35.08	34.90	33.23	33.22	33.91	33.80
8	33.18	30.72	32.56	33.66	34.75	35.22	35.10	34.83	33.18	33.23	33.99	33.82
9	32.82	31.14	32.60	33.66	34.79	35.23	35.08	34.81	33.15	33.24	34.03	33.82
10	32.77	31.70	32.97	33.66	34.90	35.24	35.04	34.82	33.13	33.22	34.04	33.74
11	32.72	31.87	32.97	33.60	34.90	.....	35.02	34.80	33.10	33.24	34.06	33.73
12	32.83	31.86	32.92	33.64	34.93	35.25	34.95	34.74	33.05	33.31	34.10	33.72
13	32.90	32.07	32.86	33.84	34.96	35.26	34.71	34.75	33.02	33.33	34.13	33.65
14	33.19	32.13	32.88	33.84	34.97	35.26	34.53	34.75	33.07	33.30	34.14	33.35
15	33.31	32.26	33.23	33.70	34.98	35.24	34.39	34.75	33.01	33.32	34.22	33.02
16	33.46	32.16	33.30	33.81	35.02	35.24	34.30	34.75	32.98	33.36	34.21	32.54
17	33.60	31.71	33.31	33.81	35.03	35.24	34.18	34.73	33.04	33.39	34.16	32.62
18	33.59	31.30	33.55	34.04	35.04	35.24	34.09	34.67	33.00	33.36	34.14	33.01
19	33.97	30.98	33.59	34.15	35.01	35.08	34.04	34.66	32.98	33.33	34.09	33.01
20	33.97	31.25	33.63	34.19	35.10	35.07	33.97	34.72	33.00	33.34	33.98	32.86
21	33.98	31.25	33.66	34.19	35.05	35.04	33.93	34.72	32.93	33.31	33.97	32.75
22	34.06	31.29	33.70	34.27	35.04	.....	33.90	34.60	32.94	33.35	33.97	32.84
23	33.90	31.38	33.83	34.26	35.04	35.10	33.89	34.49	33.00	33.33	33.81	33.00
24	33.65	31.18	33.73	34.36	34.85	35.14	33.90	34.13	33.03	33.33	33.81	33.05
25	33.36	30.98	33.69	34.33	34.83	35.19	34.16	33.97	33.04	33.34	33.84	32.87
26	32.68	30.96	33.56	34.23	34.63	35.22	34.33	33.83	33.00	33.48	33.87	32.72
27	32.12	30.76	33.35	34.33	34.62	35.16	34.47	33.66	32.95	33.48	33.79	32.87
28	30.96	31.24	33.29	34.36	34.73	35.12	34.53	33.56	32.96	33.51	33.78	32.85
29	30.37		33.20	34.35	34.83	35.11	34.62	33.53	33.12	33.57	33.72	32.76
30	29.46		33.14	34.34	34.87	35.12	34.75	33.47	33.16	33.58	33.64	32.72
31	28.48		33.36		34.92		34.61	33.36		33.73		32.75

2. Ross well. 1918 North Wayne St., Rosslyn. Records available: 1928-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	19.13	Feb. 7	17.05	Apr. 29	17.77	Sept. 30	22.60
10	18.26	14	16.83	May 31	18.67	Oct. 31	23.02
17	18.19	21	17.16	June 30	20.04	Nov. 30	23.54
24	18.32	28	16.53	Aug. 1	20.99	Dec. 30	23.97
31	17.46	Mar. 30	17.16	Sept. 2	21.99		

#### Fairfax County

1. Bacon well. About 2 miles west of Fairfax, at Fair Acres farm, on U. S. Highway 50. Records available: 1932-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	11.75	Feb. 7	10.96	Apr. 29	12.29	Sept. 30	16.91
10	11.18	14	10.99	May 31	13.06	Oct. 31	17.17
17	11.52	21	10.99	June 30	14.46	Nov. 30	17.44
24	11.44	28	10.88	Aug. 1	15.40	Dec. 30	17.63
31	11.05	Mar. 30	11.26	Sept. 2	16.27		

2. Bell well. At Ash Grove, about 1 miles northwest of Tysons Cross-roads on State Highway 7 (Leesburg Pike). Drilled well, diameter 2 inches, depth 9.28 feet, casing 2-inch galvanized pipe. Records available: 1932-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	0.23	Feb. 7	0.07	Apr. 29	0.99	Sept. 30	5.43
10	.23	14	.11	May 31	1.62	Oct. 31	2.52
17	.23	21	.22	June 30	3.08	Nov. 30	5.35
24	.05	28	.08	Aug. 1	2.87	Dec. 30	3.85
31	.17	Mar. 30	.40	Sept. 2	4.19		

3. Jefferson School well. In Falls Church, near southeast corner of Jefferson School. Records available: 1938-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	20.12	Feb. 7	18.94	Apr. 29	19.74	Sept. 30	25.35
10	19.59	14	18.87	May 31	20.35	Oct. 31	25.49
17	19.59	21	18.99	June 30	22.15	Nov. 30	25.30
24	19.52	28	18.90	Aug. 1	23.19	Dec. 30	25.40
31	19.10	Mar. 30	19.04	Sept. 2	24.65		

4. Swart well. On Swart farm, about 1.5 miles west of Fairfax, on U. S. Highway 50, at Difficult Run, about 50 feet north of the road and 162 feet west of Difficult Run. Records available: 1932-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	0.60	Feb. 7	0.34	Apr. 29	1.19	Sept. 30	1.42
10	.56	14	.55	May 31	1.25	Oct. 31	.80
17	.74	21	.65	June 30	1.25	Nov. 30	1.49
24	.47	28	.44	Aug. 1	1.21	Dec. 30	1.39
31	.61	Mar. 30	.80	Sept. 2	1.37		

#### EASTERN VIRGINIA

By Allen Sinnott

#### SCOPE OF WATER-LEVEL PROGRAM

The observation well program in eastern Virginia was continued in 1949 in cooperation with the State Geological Survey. A total of 297 measurements was made in 1949 in 9 observation wells, 3 of which were equipped with recording gages.

Reports on the following areas or subjects are in preparation:

Chemical character of ground water in the Coastal Plain of Virginia by D. J. Cederstrom; to be published as Bulletin 68 of the Virginia Geological Survey.



Public and industrial ground-water supplies of the Roanoke area by Bruce F. Latta.

Geology and ground-water resources of the York-James peninsula by D. J. Cederstrom.

Geology and ground-water resources of the Eastern Shore peninsula by Allen Sinnott.

Quantitative ground-water studies in the Franklin area, southeastern Virginia by Allen Sinnott.

Fluoride in ground water in the Coastal Plain of Virginia by Allen Sinnott and George W. Whetstone.

Geology and ground-water resources of the Coastal Plain in northeastern Virginia by Allen Sinnott.

#### FLUCTUATIONS OF WATER LEVELS

The average precipitation for the State, 45.38 inches, was 7 percent above normal.

Accomack County.--The water level in the observation well at Chincoteague Naval Auxiliary Air Station has shown no substantial change since the previous year.

Chesterfield County.--There was little change in water level in well 36 during 1949, the total fluctuation being less than 2 feet. At the end of the year the water level was a little more than a foot below the 1948 year-end water level.

The rainfall at Richmond was 4.85 inches above normal during 1949, compared with 10.49 inches above normal during 1948. Abnormally high rainfall at Richmond during August and October is reflected in water levels about a foot above average during the last four months of 1949.

Isle of Wight County.--The water level in well 161 did not continue its decline during 1949. Between March and November 1948 the water level exceeded 20 feet below the land surface several times, but during 1949 the lowest level recorded was 19.52 feet.

Prince George County.--The water level in well 13, at the Old Dominion Water Corporation in Hopewell, averaged 36 feet below the land surface during the first 5½ months of the year. Artificial recharge (in order to store cold water underground for reuse during the summer) was carried on from January to March at the nearby Solvay Process Company. The water level did not decline substantially until May 20, when summer pumping at the Solvay plant began, and by late June the water level had dropped to nearly 50 feet below the surface. The pumping

ceased about November 14 and the water level recovered gradually during December to about 37 feet below the surface at the end of the year.

Southampton County.--The water level in well 29 at Sebrell remained about the same during the entire year. Four measurements made in well 89 at Courtland show that a slight rise in water level has occurred since measurements were last made in this well in 1946. Measurements in the Town well (205) at Franklin showed that during the first half of 1949 the water level was about 3 feet lower than the corresponding period in 1948. The water level remained about the same for the remainder of the year, but recovered toward the end of December so that it was about 4 feet above the year-end level for 1948.

Sussex County.--The total fluctuation in well 90 at Wakefield was about  $2\frac{1}{4}$  feet. During 1949 the over-all decline in water level was about half a foot compared with 1948, presumably indicating that the heavy industrial withdrawals at Franklin, 20 miles to the south-southeast, had less effect than in previous years.

Warwick County.--In Milstead well 1, at Fort Eustis, on the lower York-James peninsula, the artesian head was above land surface throughout the year, the lowest level being only slightly less than 2 feet above the surface in late June.

#### WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS\*

##### Accomack County

B-8. Naval Auxiliary Air Station, Chincoteague. Drilled unused well, diameter 8 inches, depth 60 feet. Measurements by Navy Department. Records available: 1948-49. Jan. 3, 25.47; Feb. 3, 25.94; Mar. 3, 25.93; Apr. 4, 24.98; May 5, 25.89; June 3, 25.05; Aug. 3, 25.36; Sept. 7, 24.41.

##### Chesterfield County

36. Pilcher well, at Matoaka Manor, 3 miles north of Petersburg. Drilled unused well, diameter 6 inches, depth 139 feet. Taps water in granitic basement rock. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	14.70	Apr. 1	14.98	June 30	16.00	Sept. 28	15.47
Feb. 1	14.45	30	15.62	Aug. 3	15.40	Nov. 2	15.63
25	14.05	May 31	15.86	31	15.53	Dec. 5	15.43

##### Isle of Wight County

161. Camp Manufacturing Co., Inc. Formerly Chesapeake-Camp Corp. Drilled unused well, diameter 6 to 4 inches, depth 605 feet. Taps artesian water in Cretaceous sands. Equipped with recording gage. Records available: 1942-49.

\*Observation wells in Virginia are listed alphabetically by counties and numerically within each county.

161--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	18.50	Apr. 11	19.18	July 11	16.10	Oct. 3	19.25
10	18.51	18	18.14	18	17.80	10	19.20
17	18.57	25	18.89	25	18.64	17	19.11
24	18.66	May 2	18.99	Aug. 1	19.13	24	19.17
31	18.73	9	19.07	8	19.23	31	18.66
Feb. 7	18.65	16	19.03	15	19.05	Nov. 7	18.47
14	18.67	23	19.23	22	19.16	14	18.33
21	18.62	30	19.33	29	19.21	21	18.19
28	18.51	June 6	19.32	Sept. 5	19.24	28	18.02
Mar. 7	18.89	13	15.78	12	19.37	Dec. 5	17.76
14	18.99	20	19.00	19	19.30	12	17.50
21	19.06	27	19.52	26	19.31	19	17.25
28	19.02	July 5	19.05	28	19.21	26	13.70
Apr. 4	19.18						

a After large-yield wells at plant had been shut down for 3 days.

Prince George County

13. Old Dominion Water Corp. In Hopewell. Drilled unused well, diameter 6 inches. Equipped with recording gage. Records available: 1939-49.

Jan. 7	35.41	Apr. 8	35.41	July 8	49.46	Oct. 7	49.26
14	35.76	15	35.31	15	48.59	14	49.21
21	36.11	22	35.66	22	49.91	21	48.96
28	35.31	29	35.76	29	49.71	28	48.16
Feb. 4	35.51	May 6	35.61	Aug. 5	49.81	Nov. 4	46.46
11	34.41	13	35.16	12	49.68	11	46.06
18	35.66	20	35.21	19	49.71	18	41.81
25	35.46	27	42.41	24	49.46	25	39.26
Mar. 4	35.66	June 3	46.21	Sept. 2	49.66	Dec. 2	38.36
11	35.26	10	47.91	9	49.31	9	37.86
18	35.41	17	48.51	16	49.21	16	37.36
25	35.71	24	49.06	23	49.16	23	36.56
Apr. 1	35.36	July 1	51.51	30	49.36	30	36.76

Southampton County

29. Virginian Railway. At Sebrell. 300 feet east of station, between tracks. Drilled well, diameter 10 inches, depth 344 feet. Records available: 1942-49.

Feb. 1	31.30	May 31	31.02	July 8	31.01	Sept. 28	31.05
25	31.05	June 30	31.01	Aug. 4	31.14	Nov. 2	31.03
Apr. 1	30.96	July 5	30.87	31	30.83	Dec. 5	31.23
30	31.05						

89. Southampton County Courthouse. At Courtland. Jetted well, diameter 2 inches, depth 125 feet. Records available: 1942-46, 1949. Aug. 4, 9.63; Aug. 31, 9.00; Sept. 28, 9.66; Dec. 5, 9.67.

205. Town of Franklin. Jetted unused well, diameter 4 inches, depth 354 feet. Records available: 1942-49.

Jan. 1	26.5	Apr. 9	26.5	July 9	21.3	Oct. 8	28.0
8	27.0	16	26.5	13	27.0	15	27.8
15	26.8	23	27.5	23	28.3	22	28.0
22	27.0	30	27.8	30	28.3	29	27.8
29	26.7	May 7	27.5	Aug. 6	28.2	Nov. 5	27.5
Feb. 5	26.3	14	26.8	13	27.5	12	26.9
12	26.5	21	26.0	20	26.9	19	27.5
19	26.7	28	27.5	27	27.5	26	26.9
26	26.5	June 4	27.3	Sept. 3	28.0	Dec. 3	26.5
Mar. 5	27.0	11	22.8	10	27.8	10	26.0
12	27.5	18	28.0	17	28.0	17	26.5
19	28.5	25	28.5	24	27.5	24	24.5
26	27.5	July 2	27.8	Oct. 1	27.8	31	21.5
Apr. 2	26.8						

(Water levels for 1947 and 1948 in error, 1.0 foot should be added to each measurement.)

Sussex County

90. Jeb S. White well. In Wakefield. Drilled unused well, diameter 3 inches, depth 225 feet. Taps artesian water in Cretaceous sands. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	72.73	Apr. 4	73.35	July 5	73.94	Oct. 10	73.46
10	73.00	11	72.74	11	73.43	17	72.90
17	72.66	18	72.48	19	73.14	24	72.82
24	73.03	25	73.08	28	74.00	31	72.76
31	72.58	May 2	73.08	Aug. 1	74.16	Nov. 7	73.24
Feb. 7	72.84	9	73.20	8	72.24	14	72.83
14	72.86	16	72.97	15	73.77	21	73.20
21	72.70	23	73.15	22	73.35	28	72.81
28	72.42	30	73.24	29	73.31	Dec. 6	73.23
Mar. 7	72.44	June 6	73.67	Sept. 12	73.43	13	72.85
14	73.44	13	73.75	19	73.62	19	72.70
21	72.90	20	73.37	27	73.52	27	73.20
28	72.64	27	74.14	Oct. 3	73.07		

Warwick County

Milstead 1. At Fort Eustis. Near sewage disposal plant. Drilled unused well, diameter 10 inches, depth 370 feet. Equipped with recording gage. Records available: 1941-49.

Jan. 6	+5.25	Apr. 8	+4.62	July 8	+3.00	Oct. 11	+3.86
13	+5.25	15	+5.10	15	+2.85	14	+3.90
21	+5.01	22	+4.10	22	+2.65	21	+4.20
28	+5.46	29	+4.15	29	+2.95	28	+3.70
Feb. 4	+5.13	May 6	+3.95	Aug. 5	+2.48	Nov. 4	+3.85
11	+4.95	13	+4.20	12	+3.10	10	+3.93
18	+4.89	20	+4.20	19	+3.20	18	+3.86
25	+5.25	27	+3.95	26	+3.42	25	+4.18
Mar. 4	+5.15	June 3	+3.73	Sept. 2	+2.84	Dec. 2	+3.70
11	+5.33	10	+3.45	9	+3.75	9	+3.85
18	+5.15	17	+3.70	19	+3.33	16	+3.68
25	+5.04	24	+1.95	27	+3.80	23	+3.72
Apr. 1	+5.47	July 1	+2.85	Oct. 4	+3.65	30	+3.75

## WEST VIRGINIA

By R. C. Smith

### SCOPE OF WATER LEVEL PROGRAM

The observation-well program in West Virginia, begun in 1941 in cooperation with the State Geological and Economic Survey, was continued in 1949. As a part of the ground-water investigation, 16 observation wells were maintained during the year. Recording gages were operated on 3 wells. 383 measurements by the wetted-tape method were made in 12 wells, and the rate of flow of 1 flowing well was measured at irregular intervals throughout the year.

### FLUCTUATIONS OF WATER LEVELS

The water table as observed in wells 9-6-46 in Morgantown, 39-1-7 in Buffalo, and 40-3-1 near Nitro, was generally high as the year opened due to above-normal precipitation in November and December 1948 and January 1949. The water level in well 39-1-7 rose to a new high (0.40) on January 22. On February 21 the water level in well 40-3-1 rose to 2.22. (fig.16). A deficiency in precipitation during March, April, and May caused a general decline in the water table. Although there was an excess of 1.34 inches of rain in June, most of the water was captured by growing plants and the water table continued to decline through the summer and fall months. Local heavy rains in July caused a temporary rise in the water level in well 40-3-1. The end of the growing season and slightly above-normal precipitation at the year end caused the water table to return to about the same level as it was in January.

The fluctuation of water levels in wells in the alluvial gravels along the Ohio River are related primarily to variations in the stage of the adjacent river, as shown in figure 15. The water levels generally rise during periods of high river stage in the spring and decline more or less regularly until the river level again rises substantially above pool stage. The Ohio River did not reach flood stage in 1949, and the river stages during the first quarter of the year were generally lower than during the first

quarter of 1948. The river was in pool stage most of the last half of the year, and consequently the water levels in the adjacent alluvium were generally lower than in 1948. The water level in well 50-1-5, at Kenova, in an area not affected by pumping, showed a net decline for 1949 of 2.22 feet (fig.15).

Wells 27-3-20 and 27-3-22 are in the municipal well field at Parkersburg. A decrease in nearby pumping during August and September caused a corresponding rise in the water levels in the wells. The water level in well 27-3-22 showed a net rise for 1949 of 1.23 feet (fig.15).

Fluctuations in water level at wells drilled to artesian aquifers, as observed in West Virginia, are caused by variations in pumpage from the formations. As the intake areas of the formations are generally distant from the localities where the fluctuations are observed, the variations in precipitation for short periods are not reflected in the water-level records.

The water levels in the bedrock wells were generally high at the beginning and end of 1949. The water level in well 40-5-14 at Charleston, declined during the summer months because of nearby pumping for air conditioning but rose at the end of the year and showed a slight net rise (0.10 foot) for 1949 (fig.16). The water level in well 9-6-27, at Morgantown, which had been on general decline, has shown a continuous rise since 1945 due to the decrease in nearby pumping (fig.16). It reached a high (96.59) for the period of record (1941-49) on December 19. The water level in well 9-6-45 also reached a record high (10.10) at the beginning of the year and had almost returned to it at the end of the year.

Water levels in two of the artesian observation wells did not conform to the general pattern. The water level in well 11-3-8 at Masontown, which may be affected by pumping, dropped to a record low (22.43) on October 25, and showed a slight net decline (0.62 foot) for the year (fig.16). The water level at well 39-1-6A, which has been declining continuously since 1946, reached a record low (86.44) on July 8. The decline in water level is due to overpumping from the nearby municipal wells supplying Buffalo. Greatly decreased pumping at the end of the year caused the water-level record to show a net rise for the year of 7.42 feet, but the period of record shows a net decline of 38.39 feet.

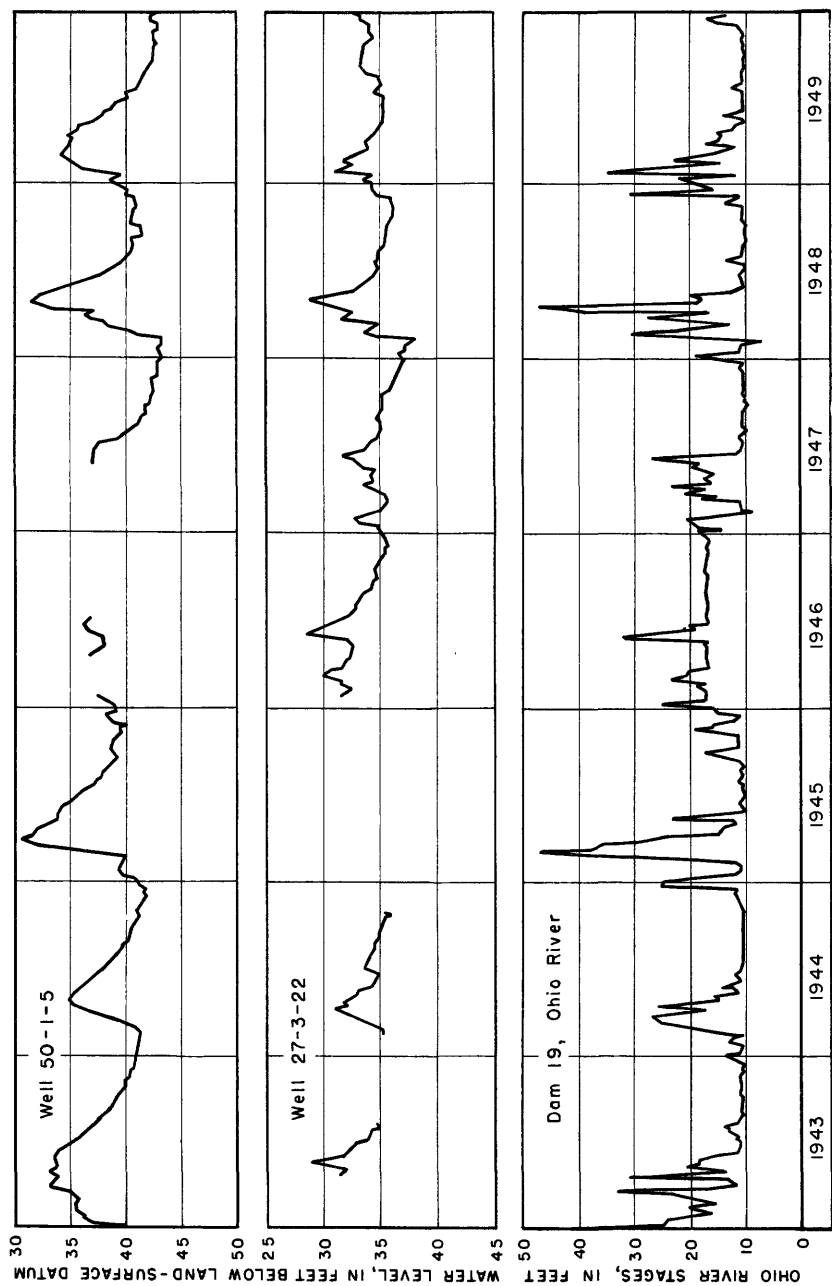


Figure 15.--Graphs showing fluctuations of water levels in alluvium and stage of Ohio River at Lum 19.

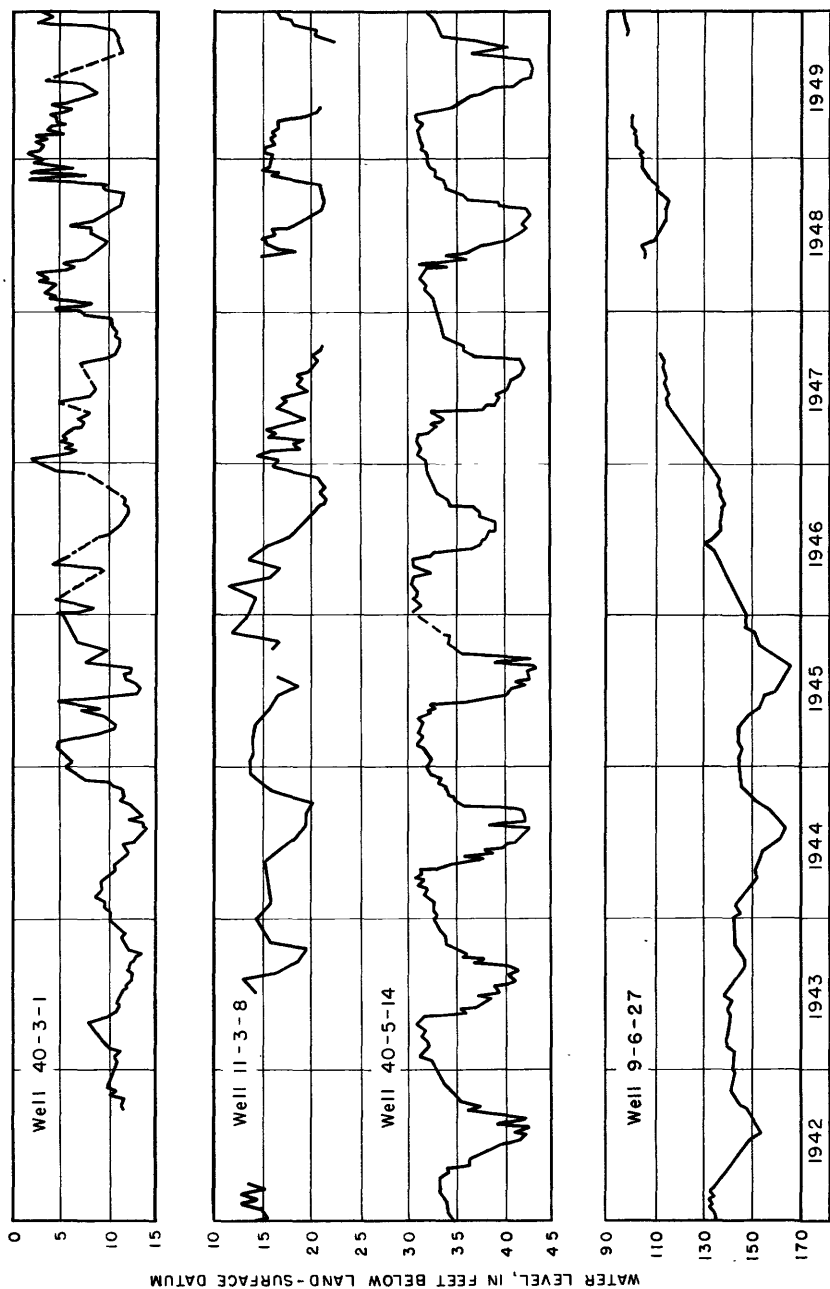


Figure 16.--Graphs showing fluctuations of water levels in four observation wells.



## WELL-NUMBERING SYSTEM

Observation wells in West Virginia are assigned three-part numbers indicating their location by county and magisterial district. For this purpose the counties have been numbered consecutively in a general southward direction, beginning with Hancock County, which is at the northernmost tip of the State; the magisterial districts within each county are numbered consecutively according to the same plan; then each well within the district is numbered consecutively as they are surveyed. Thus, the number 9-6-27, assigned to a well in Morgantown, indicates that it is the twenty-seventh well in district 6 (Morgan District) of county number 9 (Monongalia County).

## WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Fayette County

42-4-1. Baldwin Supply Co. 407 Fourth Ave., Montgomery. Drilled unused well, diameter 6 inches, depth 95 feet. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	22.21	Mar. 28	22.83	July 11	25.78	Oct. 10	34.36
10	23.10	Apr. 3	22.98	18	25.30	17	25.15
17	22.48	25	23.86	25	25.62	24	24.85
24	22.32	May 2	22.71	Aug. 1	25.74	31	24.99
31	22.64	9	23.51	8	27.20	Nov. 7	24.80
Feb. 7	23.14	16	23.28	15	26.91	14	25.45
15	22.66	31	23.28	22	25.24	21	23.72
21	22.55	June 6	23.04	29	25.19	28	24.05
28	22.44	13	23.98	Sept. 6	24.57	Dec. 5	23.25
Mar. 7	22.85	20	23.71	19	24.70	12	23.29
14	22.39	27	29.10	26	24.95	27	22.43
21	23.09	July 5	28.32	Oct. 3	24.75		

42-4-2. Virginian Railway Co. At Deepwater, 200 feet west of overpass. Dug unused well, diameter 36 inches, depth 14 feet. Records available: 1942-45. No measurement made in 1949.

Harrison County

12-2-26. City of Lumberport. At Lumberport along Jones Creek, 0.5 mile northwest of State Highway 20. Drilled unused well, diameter 6 inches, depth 140 feet. Records available: 1942. No measurement made in 1949.

Kanawha County

40-3-1. L. T. Smith. At Nitro, along 40th St., 0.45 mile west of U. S. Highway 35. Dug unused well, diameter 24 inches, depth 17 feet. Records available: 1942-49.

Jan. 4	2.10	Mar. 14	5.48	May 28	5.58	Oct. 29	10.71
12	3.01	23	3.34	June 18	8.30	Nov. 5	10.98
17	2.29	29	3.70	25	8.54	12	10.78
22	1.40	Apr. 4	5.57	30	7.84	18	10.58
28	1.64	11	4.37	July 13	7.03	23	9.88
Feb. 2	2.65	23	4.36	22	3.39	29	8.23
15	3.31	29	3.56	Sept. 29	11.32	Dec. 3	3.83
21	2.22	May 4	5.21	Oct. 5	11.31	10	2.44
28	3.60	10	6.07	15	11.32	22	4.17
Mar. 5	2.39	20	3.83	22	10.95	29	3.07

40-5-14. Coyle & Richardson Dept. Store. Dickinson and Lee Sts. At Charleston. Drilled unused well, diameter 8 inches, depth 208 feet. Records available: 1941-49.

Lowest daily water level, from recorder graphs

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.90	31.47	31.25	31.57	30.70	34.72	38.97	41.90	39.81	37.46	34.17	32.93
2	31.80	31.48	31.23	31.60	31.18	35.92	39.02	42.08	40.17	35.66	33.90	32.83
3	31.99	31.43	31.16	31.05	31.37	35.81	36.30	41.17	41.79	37.68	33.58	.....
4	31.99	31.45	31.13	31.07	32.12	35.95	36.27	42.32	37.90	38.08	33.55	.....
5	31.99	31.45	31.03	31.02	33.20	34.36	38.72	42.49	37.32	38.10	33.57	.....
6	31.95	31.42	31.03	31.00	33.30	34.83	38.27	42.18	42.18	38.30	33.57	32.65
7	31.62	31.61	31.19	30.98	33.05	36.16	41.06	38.10	40.02	39.06	33.50	32.65
8	31.55	31.46	31.12	30.99	32.50	36.37	.....	41.44	40.54	40.55	33.52	32.90
9	31.67	31.52	30.98	30.98	33.25	36.37	.....	42.37	39.05	36.04	33.52	32.90
10	31.93	31.61	31.14	30.92	33.65	36.32	.....	41.50	38.98	40.35	33.43	32.82
11	31.94	31.61	31.13	31.01	33.30	36.72	.....	42.00	37.31	40.35	33.43	32.79
12	32.02	31.50	31.04	30.90	34.09	34.65	.....	42.33	39.42	39.67	33.35	32.68
13	32.02	31.38	31.03	30.85	32.53	36.78	.....	42.58	38.78	38.75	33.30	32.60
14	32.02	31.36	30.97	30.95	32.73	37.02	.....	38.30	39.17	38.45	33.35	32.35
15	32.02	31.35	31.13	30.38	31.77	37.27	.....	42.30	38.08	38.25	33.41	32.23
16	31.93	31.26	31.12	30.48	32.57	37.22	.....	42.52	39.83	36.01	33.41	32.23
17	32.02	31.10	30.98	30.42	33.42	37.09	.....	41.59	41.08	37.65	33.35	32.30
18	32.02	31.04	31.08	30.67	35.06	37.52	41.42	42.41	37.18	36.02	33.37	32.30
19	32.02	31.03	31.01	30.82	35.22	35.30	41.51	42.56	40.33	35.74	33.33	32.43
20	32.02	31.08	30.83	30.75	35.35	37.01	40.72	39.32	37.49	35.73	33.10	32.42
21	31.94	31.13	30.73	30.68	35.17	37.75	41.71	37.42	36.76	35.64	33.28	32.35
22	31.90	31.10	30.73	30.68	33.67	38.28	41.94	39.29	38.65	36.30	33.28	32.30
23	31.83	31.18	30.91	30.63	35.20	37.90	41.83	41.23	38.39	35.71	33.13	32.33
24	31.58	31.13	30.88	30.71	35.10	38.35	37.67	41.37	36.35	35.41	33.10	32.30
25	31.59	31.25	30.88	30.75	34.03	38.47	41.73	42.10	36.21	35.35	33.05	32.12
26	31.48	31.23	30.85	30.76	33.40	36.05	42.00	42.40	36.09	35.41	33.04	32.07
27	31.37	31.05	30.71	30.75	33.14	38.15	40.61	42.58	35.94	35.33	32.93	32.05
28	31.09	31.18	30.96	31.13	33.50	38.58	42.20	38.22	35.88	35.33	32.95	.....
29	31.20		30.96	30.87	33.65	38.70	41.94	40.21	35.60	34.80	32.95	32.07
30	31.21		31.02	30.75	33.70	38.92	42.30	42.00	35.61	34.42	32.93	32.15
31	31.35		31.03		34.30		37.97	41.04		34.23		32.15

Mason County

38-3-3. West Virginia Industrial School. At Lakin. Dug unused well, diameter 6 inches, depth 91 feet. Records available: 1942-44. No measurement made in 1949.

38-3-4. V. K. Smith. At Kaylong, 1 mile south of post office. Dug unused well, diameter 30 inches, depth 67 feet. Records available: 1942-45. No measurement made in 1949.

38-3-5. Homer Smith. At Kaylong, 1.2 miles south of Lakin. Dug well, diameter 30 inches, depth 67 feet. Records available: 1942-44. No measurement made in 1949.

Monongalia County

9-2-2. Earl Miller. At sawmill in Blacksville. (The town of Blacksville is partly in Monongalia County, W. Va., and partly in Greene County, Pa. Well 9-2-2 is actually in Pennsylvania a few feet north of the W. Va. boundary. It is listed in this report with W. Va. wells because Blacksville post office is in W. Va.) Drilled well, diameter 6 inches, depth 40 feet. Records available: 1941, 1943-45, 1948-49. Feb. 24, 12.33; Apr. 19, 13.06; May 19, 15.46; Oct. 5, 14.91; Oct. 25, 16.04; Dec. 7, 17.29; Dec. 13, 14.18.

9-6-1. Baltimore & Ohio Railroad. At Morgantown, at mouth of Aaron Creek. Formerly listed as being in Sabraton; now included within Morgantown city limits. Flowing artesian well. Records available: 1941-49.

9-6-1--Continued.

## Rate of flow, in gallons a minute

Date	Rate of flow	Date	Rate of flow	Date	Rate of flow	Date	Rate of flow
Jan. 3	26.5	Feb. 28	27.0	Apr. 18	27.0	Nov. 7	19.5
10	26.0	Mar. 7	26.5	25	25.0	21	16.5
17	26.0	15	26.5	May 2	27.5	28	19.5
24	26.0	21	26.5	19	26.0	Dec. 5	19.0
Feb. 7	26.0	28	26.0	Oct. 5	18.0	12	21.0
15	26.5	Apr. 4	25.5	25	18.0	19	20.0
21	26.5	11	26.0	Nov. 1	19.5		

9-6-27. T. J. Johnson. Foundry St., Morgantown. Records available: 1941-49. Drilled well, diameter 10 inches, depth 875 feet.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	104.15	Feb. 21	101.25	Apr. 4	100.05	Nov. 7	97.52
10	103.58	28	101.45	11	99.74	21	97.84
17	102.87	Mar. 7	100.89	18	99.38	28	97.35
23	103.10	15	100.50	25	99.55	Dec. 5	97.51
Feb. 7	101.65	21	101.26	May 2	99.34	12	97.16
15	101.54	28	100.33	Nov. 1	97.33	19	96.59

9-6-45. Deckers Creek Sand Co. At Greer, below sand quarry. Drilled unused well, diameter 8 inches, depth 105 feet. Records available: 1941-45, 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	10.72	Feb. 28	10.40	Apr. 18	10.63	Nov. 7	11.44
10	10.67	Mar. 7	10.52	25	10.88	21	11.67
17	10.67	15	10.58	May 2	10.90	28	11.45
24	10.10	21	10.58	19	11.16	Dec. 5	11.29
Feb. 7	10.44	28	10.70	Oct. 5	16.64	12	10.90
15	10.64	Apr. 4	10.66	25	15.48	19	10.50
21	10.26	11	10.59	Nov. 1	11.55		

9-6-46. W. L. Madire. 132 Prairie St., Morgantown, about 100 feet southeast of corner of Prairie St. and University Ave. Records available: 1943-45, 1947-49. Dug unused well, diameter 30 inches, depth 16 feet.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	8.09	Mar. 21	8.49	Oct. 25	10.72	Nov. 28	14.67
24	6.15	Apr. 4	10.04	Nov. 1	14.70	Dec. 5	14.34
Feb. 7	6.89	18	10.60	7	14.56	12	14.05
21	6.20	May 2	13.18	21	14.61	19	11.24
Mar. 7	8.86						

Preston County

11-3-3. Preston County Coal & Coke Co. At Cascade, 0.7 mile east of post office. Drilled unused well, diameter 8 inches, depth 102 feet. Records available: 1941-46. No measurement made in 1949.

11-3-3A. Preston County Coal & Coke Co. At Cascade. Shallow dug well, diameter 14 inches, depth 7 feet. Records available: 1941-43, 1946. No measurement made in 1949.

11-3-8. G. E. Lemmons. East Depot St., Mason town. Drilled well, diameter 8 inches, depth 785 feet. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	15.81	Feb. 28	15.60	Apr. 18	17.76	Nov. 7	20.14
10	15.82	Mar. 7	16.31	25	19.21	21	20.69
17	16.00	15	15.89	May 2	20.23	28	19.41
24	15.04	21	16.45	19	20.71	Dec. 5	18.25
Feb. 7	15.24	28	16.68	Oct. 25	22.43	12	18.05
15	16.42	Apr. 4	16.62	Nov. 1	21.53	Dec. 19	17.03
21	15.72						

11-3-9. Martin L. Massie. East end of E St., Masontown. Drilled domestic well, diameter 5 inches, depth 36 feet. Records available: 1941-44. No measurement made in 1949.

11-3-14. Belfort Corp. At Reedsville, near plant. Drilled unused well, diameter 4 inches. Records available: 1942-43, 1945-46, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 26	+0.01	Oct. 5	1.07	Nov. 7	0.53	Dec. 5	0.56
Apr. 20	.39	25	.53	21	.80	12	.23
May 19	.51	Nov. 1	.61	28	.79	19	.46

11-5-10. Terra Alta water Board. In Terra Alta, about 500 feet east of State Secondary Highway 53, between the Baltimore & Ohio Railroad tracks and Snowy Creek. Drilled unused municipal well, diameter 8 inches, depth 125 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	0.16	Oct. 5	18.17	Nov. 7	2.31	Dec. 5	2.19
Mar. 26	1.28	25	10.29	21	4.36	12	2.37
Apr. 20	2.08	Nov. 1	5.95	28	3.84	19	1.97
May 19	10.75						

#### Putnam County

39-1-6. Town of Buffalo. At Buffalo, near water works. Drilled unused well, diameter 8 inches, depth 110 feet. Records available: 1943-45. No measurement made in 1949.

39-1-6A. Town of Buffalo. East end of Sycamore St., Buffalo. Drilled unused well, diameter 9 inches, depth 156 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	77.90	Apr. 16	78.46	Aug. 6	77.42	Oct. 22	74.41
15	75.90	23	78.48	13	75.48	29	73.49
22	75.47	30	77.47	20	73.44	Nov. 5	71.47
29	74.10	May 7	81.41	27	74.44	12	71.30
Feb. 5	76.44	14	80.47	Sept. 3	74.44	19	69.43
19	75.60	28	80.41	10	74.50	26	69.42
Mar. 5	75.74	June 11	80.50	17	75.48	Dec. 3	69.47
12	76.80	18	79.46	24	75.47	10	69.43
19	75.45	July 8	86.44	Oct. 1	79.41	17	71.42
26	76.41	16	80.41	8	75.42	24	70.40
Apr. 4	78.48	23	78.63	15	74.44	31	70.48
9	78.42	30	77.45				

39-1-7. C. C. Wears. At Buffalo, at south edge of town, about 150 feet east of U. S. Highway 35. Dug unused well, diameter 20 inches, depth 26 feet. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	1.65	Apr. 23	2.42	July 23	7.63	Oct. 15	12.61
15	2.64	30	1.61	30	9.65	22	12.61
22	+4.40	May 7	3.52	Aug. 6	10.50	29	12.61
29	1.20	14	5.64	13	.64	Nov. 5	8.65
Feb. 5	2.70	21	6.30	20	3.68	12	11.10
19	1.60	28	1.64	27	9.61	19	11.64
Mar. 5	.69	June 4	3.68	Sept. 3	10.50	26	10.64
12	1.67	11	7.82	10	11.62	Dec. 3	3.53
19	1.65	18	5.67	17	13.64	10	+4.40
26	1.62	25	8.68	24	12.08	17	1.62
Apr. 2	2.58	July 9	9.61	Oct. 1	10.61	24	+4.40
9	1.68	16	7.69	8	11.68	31	2.05
16	1.62						

#### Wayne County

50-1-5. Ashland Oil & Refining Co. In Kenova, at refining plant. Drilled unused well, diameter 6 inches, depth 73 feet. Records available: 1942-46, 1948-49.

50-1-5--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	38.60	Apr. 15	34.97	July 8	40.18	Oct. 7	42.39
14	38.68	22	35.39	15	39.89	21	42.43
21	39.56	29	35.64	22	40.89	28	42.52
28	38.14	May 6	35.77	29	41.02	Nov. 4	42.39
Feb. 4	36.04	13	36.77	Aug. 5	41.16	14	42.56
12	35.43	20	37.22	12	41.31	19	42.39
17	35.22	27	37.87	27	41.70	26	42.83
Mar. 4	34.31	June 4	38.14	Sept. 2	41.70	Dec. 1	42.79
11	34.35	10	38.58	9	42.00	9	42.79
25	34.87	17	38.79	16	42.10	16	42.02
Apr. 1	34.97	24	39.22	23	42.33	23	42.02
8	35.18	July 2	40.16	30	42.39	30	42.77

50-1-5A. Ashland Oil & Refining Co. In Kenova, at refining plant. Drilled unused well, diameter 10 inches, depth 42 feet. Records available: 1947-48. No measurement made in 1949.

Wood County

27-3-20. City of Parkersburg well 4. In Parkersburg, in city well field. Drilled unused well, diameter, 18 inches, depth 57 feet. Records available: 1943-49.

Lowest daily water level, from recorder graph

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	40.54	40.56	40.27	40.05	36.93	37.07	38.28	37.60
2	.....	40.64	40.68	40.27	40.08	36.84	37.08	38.37	38.07
3	.....	40.65	40.77	40.21	39.94	36.79	37.08	38.46	38.17
4	.....	40.64	40.81	40.11	39.85	36.74	37.06	38.51	38.18
5	.....	40.67	40.82	40.02	39.80	37.06	37.10	38.58	38.14
6	.....	40.69	40.82	40.07	39.80	37.21	37.14	38.57	38.12
7	.....	40.76	40.91	40.17	39.71	37.14	37.19	38.57	38.04
8	.....	40.82	40.98	40.20	39.57	37.01	37.21	38.79	38.04
9	.....	40.86	40.98	40.09	39.52	36.87	37.21	38.85	38.01
10	39.66	40.93	41.00	40.01	39.49	36.84	37.23	38.87	37.96
11	39.70	40.93	40.93	39.89	39.40	37.05	37.23	38.87	37.93
12	39.78	40.86	40.91	39.77	39.52	36.77	37.31	38.89	37.93
13	39.97	40.87	40.85	39.15	39.54	36.79	37.33	38.93	37.40
14	39.96	40.94	40.85	38.82	39.57	36.82	37.33	38.95	37.28
15	39.72	40.95	40.81	38.64	39.57	36.76	37.37	39.00	36.86
16	39.89	40.96	40.74	38.47	39.57	36.77	37.41	38.98	36.29
17	39.92	40.96	40.66	38.26	39.51	36.84	37.43	38.86	36.39
18	40.17	40.96	40.66	38.10	39.48	36.78	37.40	38.66	36.87
19	40.40	40.91	40.30	38.00	39.43	36.76	37.37	38.48	36.83
20	41.03	40.96	40.26	37.97	39.52	35.78	37.36	38.27	36.68
21	40.43	40.93	40.32	38.02	39.50	36.79	37.30	38.16	36.66
22	40.44	40.81	40.32	38.17	39.21	36.76	37.34	38.12	36.79
23	40.46	40.76	40.41	38.22	38.72	36.84	37.31	37.98	36.97
24	40.42	40.53	40.46	38.42	38.02	36.86	37.26	37.91	37.03
25	40.35	40.46	40.48	39.01	37.72	37.04	37.40	37.88	36.53
26	40.25	40.27	40.47	39.31	37.50	36.84	37.68	37.92	36.75
27	40.31	40.33	40.59	39.52	37.28	36.82	37.79	37.83	37.02
28	40.37	40.37	40.29	39.60	37.11	36.87	37.92	37.75	37.03
29	40.40	40.48	49.27	39.83	37.10	37.05	38.04	37.72	37.07
30	40.39	40.51	40.24	40.06	37.04	37.07	38.07	37.62	37.05
31	40.40	40.52		40.05	36.90		38.26		37.20

27-3-22. City of Parkersburg test well F. In Parkersburg, in city well field. Drilled unused well, diameter 5 inches, depth 55 feet. Records available: 1943-44, 1946-49.

Lowest daily water level, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.03	.....	31.44	33.54	34.44	34.93	35.14	34.85	33.37	33.14	33.73	33.62
2	33.93	.....	31.61	33.54	34.51	34.98	35.13	34.90	33.31	33.13	33.74	33.77
3	33.90	.....	31.93	33.47	34.58	35.05	35.13	34.91	33.23	33.12	33.82	33.80
4	34.08	.....	32.11	33.46	34.60	35.05	35.08	34.92	33.17	33.10	33.84	33.78

27-3-22--Continued.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	34.12	.....	32.21	33.41	34.61	35.08	35.05	34.91	33.17	33.12	33.93	33.79
6	34.04	.....	32.63	33.69	34.61	35.10	35.04	34.92	33.25	33.15	33.89	33.81
7	33.60	30.63	32.67	33.67	34.70	35.21	35.08	34.90	33.23	33.22	33.91	33.80
8	33.18	30.72	32.56	33.66	34.75	35.22	35.10	34.83	33.18	33.23	33.99	33.82
9	32.82	31.14	32.60	33.66	34.79	35.23	35.08	34.81	33.15	33.24	34.03	33.82
10	32.77	31.70	32.97	33.66	34.90	35.24	35.04	34.82	33.13	33.22	34.04	33.74
11	32.72	31.87	32.97	33.60	34.90	.....	35.02	34.80	33.10	33.24	34.06	33.73
12	32.83	31.86	32.92	33.64	34.93	35.25	34.95	34.74	33.05	33.31	34.10	33.72
13	32.90	32.07	32.86	33.84	34.96	35.26	34.71	34.75	33.02	33.33	34.13	33.65
14	33.19	32.13	32.88	33.84	34.97	35.26	34.53	34.75	33.07	33.30	34.14	33.35
15	33.31	32.26	33.23	33.70	34.98	35.24	34.39	34.75	33.01	33.32	34.22	33.02
16	33.46	32.16	33.30	33.81	35.02	35.24	34.30	34.75	32.98	33.36	34.21	32.54
17	33.60	31.71	33.31	33.81	35.03	35.24	34.18	34.73	33.04	33.39	34.16	32.62
18	33.59	31.30	33.55	34.04	35.04	35.24	34.09	34.67	33.00	33.36	34.14	33.01
19	33.97	30.98	33.59	34.15	35.01	35.08	34.04	34.66	32.98	33.33	34.09	33.01
20	33.97	31.25	33.63	34.19	35.10	35.07	33.97	34.72	33.00	33.34	33.98	32.86
21	33.98	31.25	33.66	34.19	35.05	35.04	33.93	34.72	32.93	33.31	33.97	32.75
22	34.06	31.29	33.70	34.27	35.04	.....	33.90	34.60	32.94	33.35	33.97	32.84
23	33.90	31.38	33.83	34.26	35.04	35.10	33.89	34.49	33.00	33.33	33.81	33.00
24	33.65	31.18	33.73	34.36	34.85	35.14	33.90	34.13	33.03	33.33	33.81	33.05
25	33.36	30.98	33.69	34.33	34.83	35.19	34.16	33.97	33.04	33.34	33.84	32.87
26	32.68	30.96	33.56	34.23	34.63	35.22	34.33	33.83	33.00	33.48	33.87	32.72
27	32.12	30.76	33.35	34.33	34.62	35.16	34.47	33.66	32.95	33.48	33.79	32.87
28	30.96	31.24	33.29	34.36	34.73	35.12	34.53	33.56	32.96	33.51	33.78	32.85
29	30.37		33.20	34.35	34.83	35.11	34.62	33.53	33.12	33.57	33.72	32.76
30	29.46		33.14	34.34	34.87	35.12	34.75	33.47	33.16	33.58	33.64	32.72
31	28.48		33.36		34.92		34.61	33.36		33.73		32.75